

# SSC JE 2023 Oct 9 Shift 2 Mechanical Question Paper with Answers

RollNumber	
CandidateName	
VenueName	
ExamDate	09/10/2023
ExamTime	1:00PM-3:00PM
Subject	JuniorEngineer2023MechanicalPaperI

Section:GeneralIntelligenceandReasoning

Q.1 Select the combination of letters that when sequentially placed in the blanks of the given series, will complete the series.

L \_ M \_ N L \_ N \_ M \_ L \_ N \_ M N \_ L \_ M \_ N L \_

- ns
- 1. NMLMNLMLNM ✓
  - 2. NMMLNLLMNM ✗
  - 3. NMLMLNMLNL ✗
  - 4. MNLMNLMLNM ✗

QuestionID: 264330144518

Option1ID: 264330566329

Option2ID: 264330566328

Option3ID: 264330566330

Option4ID: 264330566327

Status: Answered

ChosenOption: 1

Arrange the following words in a logical and meaningful order.

1. germinate
2. sapling
3. seed
4. seedling
5. tree

- Ans
- 1. 4,2,1,3,5 ✗
  - 2. 2,3,1,2,4,5 ✗
  - 3. 3,1,4,2,5 ✓
  - 4. 3,4,2,5,1 ✗

QuestionID: 26433076672

Option1ID: 264330300755

Option2ID: 264330300753

Option3ID: 264330300754

Option4ID: 264330300752

Status: Answered

ChosenOption: 1

Q.3 Which of the following numbers will replace the question mark (?) in the given series? 30, 35, 29, ?, 28, 37

- Ans
- 1.34
  - 2.33
  - 3.36
  - 4.35

QuestionID:26433091643  
Option1ID:264330359939  
Option2ID:264330359940  
Option3ID:264330359937  
Option4ID:264330359938  
Status:Answered  
ChosenOption:3

Q.4 In a certain code language, "SPYH" is coded as "1714236" and "CFOG" is coded as "14135". How will "QTNP" be coded in that language?

- Ans
- 1.14191314
  - 2.15171114
  - 3.15181214
  - 4.13191314

QuestionID:264330132248  
Option1ID:264330518089  
Option2ID:264330518088  
Option3ID:264330518090  
Option4ID:264330518087  
Status:Answered  
ChosenOption:3

Q.5 Ritu starts from point A and drives 9 km towards South. From here, she takes a left turn and drives 8 km. She then takes a left turn, drives 3 km, turns left and drives 12 km. Finally, she takes a right turn, drives 6 km and stops at point B. How far and in which direction is point B from point A?

- Ans
- 1.4 km towards East
  - 2.2 km towards East
  - 3.4 km towards West
  - 4.2 km towards West

QuestionID:264330132003  
Option1ID:264330517109  
Option2ID:264330517107  
Option3ID:264330517110  
Option4ID:264330517108  
Status:Answered  
ChosenOption:1

Q.6 Select the number from among the given options that can replace the question mark (?) in the following series.

13, 29, 34, 71, 76, 155, 160, ?

- Ans
- 1.333
  - 2.322
  - 3.332
  - 4.323

QuestionID:26433078930  
Option1ID:264330309735  
Option2ID:264330309734  
Option3ID:264330309732  
Option4ID:264330309733

Status:Answered

ChosenOption:4

Q.7

Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.

23:536::21:?:18:331

- Ans
- 1.484
  - 2.444
  - 3.448
  - 4.488

QuestionID:26433078937  
Option1ID:264330309760  
Option2ID:264330309762  
Option3ID:264330309761  
Option4ID:264330309763

Status:Answered

ChosenOption:3

Q.8 Select the correct combination of mathematical signs to sequentially replace the \* signs and balance the given equation.

$17 * 7 * 12 * 6 * 2 = 119$

- Ans
- 1. -x÷+
  - 2. +x-÷
  - 3. x-÷+
  - 4. +÷x-

QuestionID:26433068112  
Option1ID:264330266960  
Option2ID:264330266962  
Option3ID:264330266963  
Option4ID:264330266961

Status:Not Attempted and Marked For Review

ChosenOption:--

Q.9 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.

1. Bicycle
2. Car
3. Train
4. Auto-rickshaw
5. Bus

Ans  1. 1,4,2,5,3

2. 4,1,2,3,5

3. 4,5,2,3,1

4. 4,2,3,5,1

QuestionID:264330131977

Option1ID:264330517003

Option2ID:264330517004

Option3ID:264330517006

Option4ID:264330517005

Status:Answered

ChosenOption:1

Q.10 Which letter-cluster will replace the question mark (?) to complete the given series?

AYIN, BWLM, DUOL, ?, KQUJ Ans

1. GSRK

2. GTRL

3. HSQM

4. HTSL

QuestionID:264330144505

Option1ID:264330566277

Option2ID:264330566275

Option3ID:264330566278

Option4ID:264330566276

Status:Answered

ChosenOption:1

Q.11 Each of these seven friends, Kirti, Siya, Amita, Preeti, Deepika, Jeet and Pari, has scored different marks in an exam. Pari has scored more than Kirti but less than Siya. Deepika has scored less than Preeti but more than Amita. Kirti has scored more than Preeti but less than Pari. Siya is not the highest scorer.

Who has scored the least marks?

Ans  1. Pari

2. Siya

3. Amita

4. Jeet

QuestionID:264330144633

Option1ID:264330566789

Option2ID:264330566787

Option3ID:264330566788

Option4ID:264330566790

Status:Answered

ChosenOption:3

Q.12 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.  
27:95::11:?:9:23

- Ans
- 1.27
  - 2.31
  - 3.25
  - 4.34

QuestionID:264330126041  
Option1ID:264330493836  
Option2ID:264330493838  
Option3ID:264330493839  
Option4ID:264330493837  
Status:Answered  
ChosenOption:2

Q.13 Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).



Ans

- 1.
- 2.
- 3.
- 4.

QuestionID:264330144795  
Option1ID:264330567438  
Option2ID:264330567435  
Option3ID:264330567437  
Option4ID:264330567436  
Status:Answered  
ChosenOption:3

Q.14 Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All novels are textbooks.

No newspaper is a textbook.

Conclusions:

I. No novel is a newspaper.

II. At least some textbooks are novels.

Is. Ans  1. Both conclusions I and II follow

2. Only conclusion I follows

3. Neither conclusion I nor II follows

4. Only conclusion II follows

QuestionID:264330144659

Option1ID:264330566893

Option2ID:264330566892

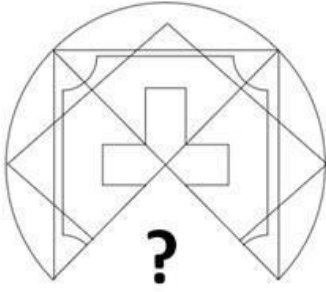
Option3ID:264330566894

Option4ID:264330566891

Status:Answered

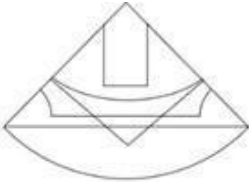
ChosenOption:4

Q.15 Select the figure from the options that can replace the question mark (?) and complete the pattern.

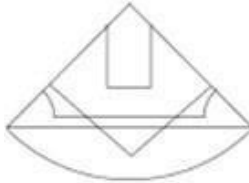


Ans

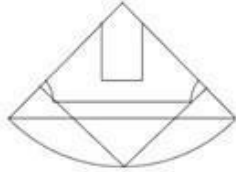
✗1.



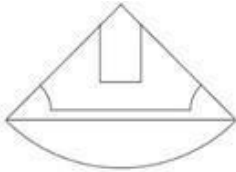
✓2.



✗3.



✗4.



QuestionID:26433068401

Option1ID:264330268117

Option2ID:264330268119

Option3ID:264330268116

Option4ID:264330268118

Status:Answered

ChosenOption:2

Q.16 'DHL' is related to 'JLN' in a certain way based on the English alphabetical order. In the same way, 'MAC' is related to 'SEE'. Which of the following is related to 'FIP' using the same logic?

- Ans
- 1. YEN
  - 2. ZEO
  - 3. AEN
  - 4. ZEN

QuestionID:264330144610  
Option1ID:264330566695  
Option2ID:264330566697  
Option3ID:264330566696  
Option4ID:264330566698  
Status:NotAnswered

ChosenOption:--

Q.17 Peter departs from his home and walks 10m towards north and then turns right and walks 36 m. He returns left and walks 5 m. Now he returns left again and walks 25 m and stops. A pole is placed exactly 15 m south from where he is standing. How far and in which direction is his house from the pole? (Assuming that all turns are 90 degrees turns only.)

- Ans
- 1. 10m, east
  - 2. 21m, west
  - 3. 11m, west
  - 4. 20m, east

QuestionID:264330129765  
Option1ID:264330508294  
Option2ID:264330508293  
Option3ID:264330508291  
Option4ID:264330508292  
Status:Answered

ChosenOption:3

Q.18 Select these two in which the numbers are related in the same way as are the numbers of the following set.  
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 Operations on 13 such as adding/subtraction/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(8,4,6)  
(13,9,10)

- Ans
- 1. (3,11,2)
  - 2. (2,10,1)
  - 3. (6,42,4)
  - 4. (7,4,5)

QuestionID:264330144443  
Option1ID:264330566029  
Option2ID:264330566030  
Option3ID:264330566027  
Option4ID:264330566028  
Status:Answered

ChosenOption:4



Q.19 In a certain code language, 'MARKET' is coded as '94', and 'SHOP' is coded as '50'. How will 'ITEMS' be coded in that language?

Ans  1. 144

2. 61

3. 69

4. 66

QuestionID:264330144601

Option1ID:264330566659

Option2ID:264330566662

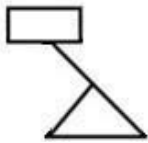
Option3ID:264330566660

Option4ID:264330566661

Status:NotAnswered

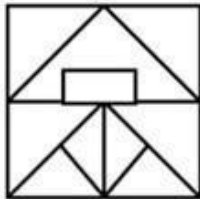
ChosenOption:--

Q.20 Select the option in which the given figure is embedded (rotation is NOT allowed).

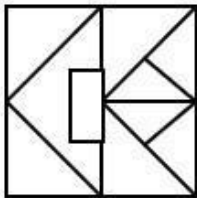


Ans

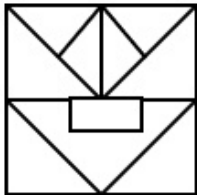
1.



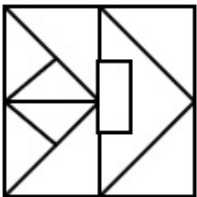
2.



3.



4.



QuestionID:264330129542

Option1ID:264330507535

Option2ID:264330507536

Option3ID:264330507537

Option4ID:264330507534

Status:Answered

ChosenOption: 1

Q.21 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

- 1 - Ostrich
- 2 - Ossification
- 3 - Otherwise
- 4 - Osteosible
- 5 - Ostrich

Ans  1.2,4,5,1,3

2.2,4,1,5,3

3.2,1,5,4,3

4.2,1,4,5,3

QuestionID:264330122428

Option1ID:264330479837

Option2ID:264330479836

Option3ID:264330479838

Option4ID:264330479835

Status:Answered

ChosenOption:2

Q.22 If 'x' means '-', '+' means '+', '-' means '+', '+' means 'x', then what will be the correct answer of the following relation?

$$375-25+3+5-5 \times 2=?$$

Ans  1.16

2.15

3.20

4.18

QuestionID:264330130215

Option1ID:264330509972

Option2ID:264330509971

Option3ID:264330509974

Option4ID:264330509973

Status:Answered

ChosenOption:1

Q.23 Pointing towards a person in the photograph, Kamla said, "He is the daughter's brother of my husband's father Ashok. Ashok has only two children. How is the person in the photograph related to Kamla?"

Ans  1. Husband's sister's son

2. Husband

3. Husband's brother

4. Sister's husband

QuestionID:264330131047

Option1ID:264330513302

Option2ID:264330513299

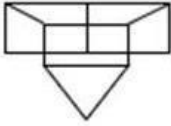
Option3ID:264330513301

Option4ID:264330513300

Status:Answered

ChosenOption:3

Q.24 Select the option that is embedded in the given figure (rotation is NOT allowed).



Ans

- ✗ 1.
- 2.
- 3.
- 4.

QuestionID:26433058110

Option1ID:264330227425

Option2ID:264330227424

Option3ID:264330227426

Option4ID:264330227427

Status:Answered

ChosenOption:3

Q.25 Which of the following numbers will replace the question mark (?) in the given series? 212, 213, 215, 219, ?, 243, 275

Ans ✗ 1. 225

✗ 2. 237

✗ 3. 235

✓ 4. 227

QuestionID:26433096013

Option1ID:264330376821

Option2ID:264330376823

Option3ID:264330376824

Option4ID:264330376822

Status:Answered

ChosenOption:4

Q.26 Six students E, F, G, H, I, and J are sitting around a circular table facing the centre. H is an immediate neighbour of both E and G. I is sitting third to the left of G. E is sitting second to the right of F. J is an immediate neighbour of both F and G. Who is an immediate neighbour of both G and F?

- Ans
- 1. E
  - 2. I
  - 3. J
  - 4. H

QuestionID:264330144626

Option1ID:264330566759

Option2ID:264330566762

Option3ID:264330566760

Option4ID:264330566761

Status:Answered

ChosenOption:3

Q.27 Which letter-cluster will replace the question mark (?) to complete the given series?

CFWI, ?, FH TK, IIQL, MJMMAn

- s
- 1. DIUI
  - 2. DGVJ
  - 3. EGUI
  - 4. EIUI

QuestionID:264330144497

Option1ID:264330566243

Option2ID:264330566245

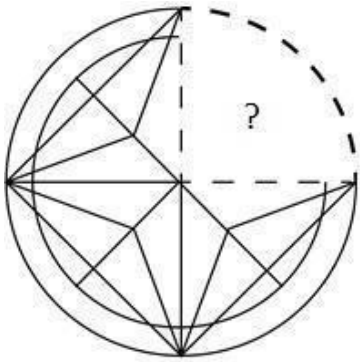
Option3ID:264330566244

Option4ID:264330566246

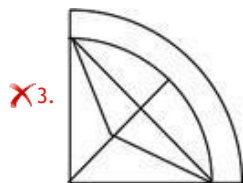
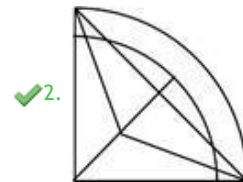
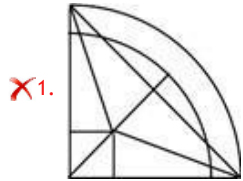
Status:NotAnswered

ChosenOption:--

Q.28 Select the figure from the options that can replace the question mark (?) and complete the pattern.



Ans



QuestionID:26433092790

Option1ID:264330364452

Option2ID:264330364450

Option3ID:264330364451

Option4ID:264330364449

Status:Answered

ChosenOption:2

Q.29 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



- Ans
1. a ̂ ʌ ɛ d F
  2. s ̂ y ɛ d ʌ
  3. 9 9 ʌ ɛ 9 ʌ
  4. a ̂ ʌ ɛ d ʌ

QuestionID:26433056961  
Option1ID:264330222830  
Option2ID:264330222829  
Option3ID:264330222831  
Option4ID:264330222828

Status:Answered  
ChosenOption:2

Q.30 In a certain code language, 'FALSE' is written as '97' and 'MYTH' is written as '46'. How will 'LEGEND' be written in that language?

- Ans
1. 127
  2. 119
  3. 121
  4. 115

QuestionID:264330144548  
Option1ID:264330566450  
Option2ID:264330566449  
Option3ID:264330566448  
Option4ID:264330566447

Status:Answered  
ChosenOption:3

Q.31 If '+' means '-', '-' means 'x', 'x' means '+', '+' means '+', then what will come in place of the question mark (?) in the following equation?

$$35 + 84 \times 4 - 3 + 11 = ?$$

- Ans
1. 83
  2. 79
  3. 87
  4. 94

QuestionID:264330126066  
Option1ID:264330493937  
Option2ID:264330493936  
Option3ID:264330493938  
Option4ID:264330493939

Status:Answered  
ChosenOption:3

Q.32 If A de note s '+', B de note s 'x', C de note s '-' and D de note s '+', the n what will be the value of the following equation?  
 $90D121A11B10C90$

- Ans
- 1. 120
  - 2. 100
  - 3. 110
  - 4. 90

QuestionID: 264330133254  
 Option1ID: 264330522066  
 Option2ID: 264330522065  
 Option3ID: 264330522063  
 Option4ID: 264330522064  
 Status: Answered  
 ChosenOption: 3

Q.33 Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.



- Ans
- 1. 9 E 6 F C Z R G
  - 2. 9 E 6 F C Z R G
  - 3. 9 E 6 F C Z R G
  - 4. 9 E 6 F C Z R G

QuestionID: 264330144787  
 Option1ID: 264330567405  
 Option2ID: 264330567404  
 Option3ID: 264330567403  
 Option4ID: 264330567406  
 Status: Answered  
 ChosenOption: 3

Q.34 Select the set in which the numbers are related in the same way as are the numbers of the following set.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13-Operation on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(5,2,121)

(4,3,55)

Ans  1. (2,8,67)

2. (4,2,60)

3. (6,8,91)

4. (3,1,9)

QuestionID:264330144450

Option1ID:264330566057

Option2ID:264330566058

Option3ID:264330566056

Option4ID:264330566055

Status:Answered

ChosenOption:2

Q.35 Which of the following terms will replace the question mark (?) in the given series? XYZV, STUQ, ?, IJKG, DEFB

Ans

1. NOPM

2. NOPO

3. NOPL

4. NOPQ

QuestionID:26433089474

Option1ID:264330351397

Option2ID:264330351400

Option3ID:264330351399

Option4ID:264330351398

Status:Answered

ChosenOption:3

Q.36 In a certain code language, "ABHORRENT" is written as "TNERROHBA" and "CULINARY" is written as "YRANILUC". How will "DELETTANTE" be written in that language?

Ans

1. ETNATTELED

2. ETNATTELDE

3. ELEDETANTT

4. EDELETTANT

QuestionID:264330132326

Option1ID:264330518401

Option2ID:264330518400

Option3ID:264330518402

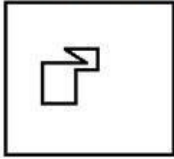
Option4ID:264330518399

Status:Answered

ChosenOption:1

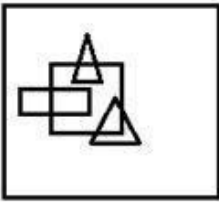


Q.37 Select the option in which the given figure is embedded (rotation is NOT allowed).

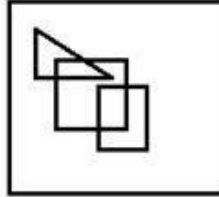


Ans

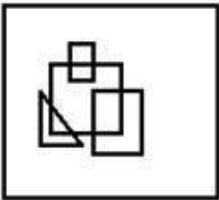
✗1.



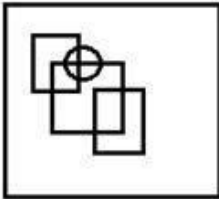
✓2.



✗3.



✗4.



QuestionID:26433068177

Option1ID:264330267223

Option2ID:264330267222

Option3ID:264330267221

Option4ID:264330267220

Status:NotAnswered

ChosenOption:--

Q.38 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Jaggery:Sugarcane:: Fabric:?

- Ans
- 1. Tailor
  - 2. Suits
  - 3. Yarn
  - 4. Cloth

QuestionID:264330144534

Option1ID:264330566392

Option2ID:264330566391

Option3ID:264330566393

Option4ID:264330566394

Status:Answered

ChosenOption:3

Q.39 Seven people, A, B, C, D, E, F and G, are sitting in a straight row, facing north. Only 1 person sits to the left of D. A is an immediate neighbour of D. Only 2 people sit between F and D. Only 3 people sit between C and G. B is not an immediate neighbour of G. Only 2 people sit between E and A.

Who sits to the immediate right of F?

- Ans
- 1. A
  - 2. E
  - 3. B
  - 4. C

QuestionID:264330144643

Option1ID:264330566827

Option2ID:264330566829

Option3ID:264330566828

Option4ID:264330566830

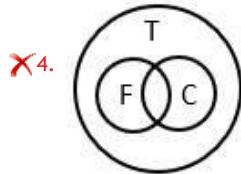
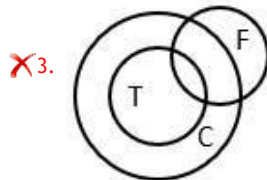
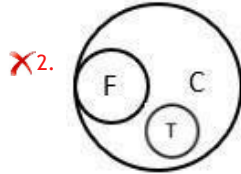
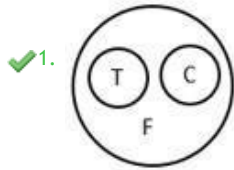
Status:Answered

ChosenOption:3

Q.40 Select the Venn diagram that best illustrates the relationship between the following classes.

Tables, Cupboards, Furniture

Ans



QuestionID: 264330144580

Option1ID: 264330566578

Option2ID: 264330566577

Option3ID: 264330566575

Option4ID: 264330566576

Status: Answered

ChosenOption: 1

Q.41 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Denver: Colorado

Ans ✗1. Mysore: Karnataka

✗2. Canberra: Australia

✓3. Lucknow: Uttar Pradesh

✗4. Delhi: India

QuestionID: 264330129755

Option1ID: 264330508253

Option2ID: 264330508254

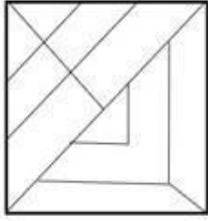
Option3ID: 264330508251

Option4ID: 264330508252

Status: Answered

ChosenOption: 3

Q.42 How many triangles are there in the given figure?



Ans  1.10

2.12

3.14

4.13

QuestionID:26433068430

Option1ID:264330268232

Option2ID:264330268233

Option3ID:264330268234

Option4ID:264330268235

Status:Answered

ChosenOption:1

Q.43 Select these two in which the numbers are related in the same way as are the numbers of the given set.

(NOTE: Operations should be performed on the whole numbers, without breaking down

the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(361, 49, 266)

(225, 36, 180)

Ans  1. (49, 620, 300)

2. (289, 16, 136)

3. (12, 36, 48)

4. (256, 64, 160)

QuestionID:26433079362

Option1ID:264330311438

Option2ID:264330311436

Option3ID:264330311439

Option4ID:264330311437

Status:NotAnswered

ChosenOption:--

Q.44 Select the word-pair in which the two words are related in the same way as are the two words in the given pair. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)  
Salt:Sodium

- Ans
- 1. Car: Petrol
  - 2. Water: Hydrogen
  - 3. Leaves: Wood
  - 4. Plant: Tree

QuestionID:264330122544  
 Option1ID:264330480301  
 Option2ID:264330480299  
 Option3ID:264330480302  
 Option4ID:264330480300  
 Status:Answered  
 ChosenOption:2

Q.45 Which letter-cluster will replace the question mark (?) to complete the given series?

ACAW, ELHA, IUOE, ?, UMCMAns

- 1. PNOI
- 2. PMOI
- 3. ODVI
- 4. ONOI

QuestionID:264330144627  
 Option1ID:264330566766  
 Option2ID:264330566764  
 Option3ID:264330566763  
 Option4ID:264330566765  
 Status:Answered  
 ChosenOption:3

Q.46 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Recession
2. Rebuke
3. Recognize
4. Receive
5. Recover

- Ans
- 1. 2, 4, 1, 3, 5
  - 2. 3, 2, 1, 5, 4
  - 3. 5, 4, 1, 3, 2
  - 4. 3, 4, 1, 5, 2

QuestionID:264330132448  
 Option1ID:264330518890  
 Option2ID:264330518887  
 Option3ID:264330518888  
 Option4ID:264330518889  
 Status:Answered  
 ChosenOption:1

Q.47If

'O ^ P' means 'O is the brother of P'; 'O \* P' means 'O is the mother of P'; 'O + P' means 'O is the husband of P'; 'O @ P' means 'O is the sister of P'; 'O = P' means 'O is the son of P'; and 'O % P' means 'O is the father of P', then how is S related to M the following expression? S = G % H @ E + F \* M

- Ans
- 1. Mother's brother
  - 2. Son
  - 3. Father's father
  - 4. Father's brother

QuestionID:264330144523  
 Option1ID:264330566349  
 Option2ID:264330566347  
 Option3ID:264330566348  
 Option4ID:264330566350  
 Status:NotAnswered  
 ChosenOption:--

Q.48 Select the correct mirror image of the given combination when the mirror is placed at line MN as shown.



- Ans
- 1. 56fgWRS
  - 2. 29fMRS
  - 3. 29fgMRS
  - 4. 56fgWRS

QuestionID:26433058086  
 Option1ID:264330227329  
 Option2ID:264330227328  
 Option3ID:264330227330  
 Option4ID:264330227331  
 Status:Answered  
 ChosenOption:3

Q.49 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/numbers of consonants/vowels in the word)

Chaos:Peace

- Ans
- 1. Deep: Intense ❌
  - 2. Mourn: Deplore ❌
  - 3. Gradual: Abrupt ✔️
  - 4. Generate: Produce ❌

QuestionID: 264330144612

Option1ID: 264330566704

Option2ID: 264330566706

Option3ID: 264330566703

Option4ID: 264330566705

Status: Answered

ChosenOption: 3

Q.50 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/numbers of consonants/vowels in the word)

Binocular:View::Spoon:?

- Ans
- 1. Feed ✔️
  - 2. Utensil ❌
  - 3. Fork ❌
  - 4. Food ❌

QuestionID: 264330144528

Option1ID: 264330566369

Option2ID: 264330566367

Option3ID: 264330566368

Option4ID: 264330566370

Status: Answered

ChosenOption: 1

Section: General Awareness

Q.1 What are Guyots?

- Ans
- 1. It is a flat topped seamount. ✔️
  - 2. These are deep valleys, some comparable to the Grand Canyon. ❌
  - 3. It is a mountain with pointed summits. ❌
  - 4. These are low islands found in the tropical oceans consisting of coral reefs. ❌

QuestionID: 264330134910

Option1ID: 264330528576

Option2ID: 264330528575

Option3ID: 264330528578

Option4ID: 264330528577

Status: Answered

ChosenOption: 2

Q.2 Patayat Sahu, who was conferred the Padma Shri in the year 2023 by the President of India for his significant contribution in the field of medicinal plants in agriculture, is from \_\_\_\_\_.

- Ans
- 1. Odisha
  - 2. West Bengal
  - 3. Chhattisgarh
  - 4. Jharkhand

QuestionID:264330132582  
Option1ID:264330519423  
Option2ID:264330519424  
Option3ID:264330519425  
Option4ID:264330519426  
Status:NotAnswered  
ChosenOption:--

Q.3 The Sangeet Natak Akademi gives fellowships to eminent artists. Gopika Varmareceived it for Mohiniyattam which is a dance form of which state?

- Ans
- 1. Karnataka
  - 2. Andhra Pradesh
  - 3. Kerala
  - 4. Tamil Nadu

QuestionID:26433064801  
Option1ID:264330253797  
Option2ID:264330253796  
Option3ID:264330253799  
Option4ID:264330253798  
Status:NotAnswered  
ChosenOption:--

Q.4 Which of the following energy resources is also known as Liquid Gold? Ans

1. Petroleum
- 2. Natural Gas
  - 3. Coal
  - 4. Uranium



QuestionID:26433071614  
Option1ID:264330280881  
Option2ID:264330280882  
Option3ID:264330280880  
Option4ID:264330280883  
Status:Answered  
ChosenOption:1



Q.5 What type of compound is formed when one hydrogen atom in ammonia is substituted by an alkyl or aromatic group?

- Ans
- 1. Secondary amine
  - 2. Carboxylic acid
  - 3. Primary amine
  - 4. Ketone body

QuestionID:264330114122  
Option1ID:264330448574  
Option2ID:264330448573  
Option3ID:264330448575  
Option4ID:264330448576  
Status:Answered  
ChosenOption:3

Q.6 In June 2022, who became the first Indian to be recognised as the Global Sustainable Development Goal (SDG) Pioneer for water stewardship by the United Nations Global Compact (UNGC)?

- Ans
- 1. Ramkrishna Mukkavilli
  - 2. Rajendra Singh
  - 3. Amla Ruia
  - 4. Ayyappa Masagi

QuestionID:264330133015  
Option1ID:264330521116  
Option2ID:264330521117  
Option3ID:264330521115  
Option4ID:264330521118  
Status:NotAnswered  
ChosenOption:--

Q.7 Which of the following is associated with Atoll?

- Ans
- 1. It is made up of two mountain chains separated by a large depression
  - 2. Low islands found in the tropical oceans consisting of coral reefs
  - 3. It is a sea mount with a flat top
  - 4. Ocean basins with gently sloping terrain

QuestionID:264330131747  
Option1ID:264330516087  
Option2ID:264330516088  
Option3ID:264330516090  
Option4ID:264330516089  
Status:NotAnswered  
ChosenOption:--

Q.8 In October 2021, MUDRAT toolbox was launched by the \_\_\_\_\_ in five Indian languages.

- Ans
- 1. Indian Council of Medical Research (ICMR)
  - 2. Indian Council of Social Science Research (ICSSR)
  - 3. Indian Council of Historical Research (ICHR)
  - 4. Indian Agricultural Research Institute (ICAR)

QuestionID: 26433082198  
 Option1ID: 264330325027  
 Option2ID: 264330325025  
 Option3ID: 264330325028  
 Option4ID: 264330325026  
 Status: Answered  
 ChosenOption: 1

Q.9 Match the column-A with column-B.

Column-A (Block Periodic Table)	Column-B (Elements)
a. s-block	i. La
b. p-block	ii. Cu
c. d-block	iii. Al
d. f-block	iv. Na

- Ans
- 1. a-iii, b-iv, c-ii, d-i
  - 2. a-i, b-iii, c-ii, d-iv
  - 3. a-iv, b-iii, c-ii, d-i
  - 4. a-i, b-ii, c-iii, d-iv

QuestionID: 264330131785  
 Option1ID: 264330516242  
 Option2ID: 264330516239  
 Option3ID: 264330516240  
 Option4ID: 264330516241  
 Status: Answered  
 ChosenOption: 3

Q.10 What does the 'PrintRange' option allow you to do when printing a document?

- Ans
- 1. Add header and footer information to the printed pages
  - 2. Choose the specific pages or range of pages to be printed
  - 3. Adjust the size of the printed document to fit on a specific number of pages
  - 4. Print the document with different fonts and styles

QuestionID: 264330168600  
 Option1ID: 264330661214  
 Option2ID: 264330661212  
 Option3ID: 264330661211  
 Option4ID: 264330661213  
 Status: Not Answered  
 ChosenOption: --

Q.11 Who among the following attacked Gujarat and plundered the Somnath Temple in the 11th century?

- Ans
- 1. Ahmad Shah Abdali
  - 2. Qutubuddin Aibak
  - 3. Mahmud of Ghazni
  - 4. Muhammad Bin Qasim

QuestionID: 26433089867  
Option1ID: 264330352946  
Option2ID: 264330352947  
Option3ID: 264330352948  
Option4ID: 264330352945  
Status: Answered  
ChosenOption: 3

Q.12 To which of the following gharanas of music did Ustad Amir Khan, a renowned vocalist, belong?

- Ans
- 1. Agra
  - 2. Jaipur-Atrauli
  - 3. Rangeela
  - 4. Indore

QuestionID: 26433066684  
Option1ID: 264330261262  
Option2ID: 264330261263  
Option3ID: 264330261260  
Option4ID: 264330261261  
Status: Not Answered  
ChosenOption: --

Q.13 According to the Centre for Monitoring Indian Economy (CMIE), in which state of India was the unemployment rate recorded as 0.1% as of September 2022?

- Ans
- 1. Chhattisgarh
  - 2. Tamil Nadu
  - 3. Madhya Pradesh
  - 4. Uttarakhand

QuestionID: 264330113297  
Option1ID: 264330445275  
Option2ID: 264330445274  
Option3ID: 264330445276  
Option4ID: 264330445273  
Status: Answered  
ChosenOption: 2

Q.14 Which of the following Buddhist sites is NOT found in the Vengiregion of Andhra Pradesh?

- Ans
- 1. Nagarjunkonda
  - 2. Amaravati
  - 3. Chaukhandi
  - 4. Jagayyapetta

QuestionID:26433072648  
Option1ID:264330284853  
Option2ID:264330284852  
Option3ID:264330284854  
Option4ID:264330284855  
Status:Answered  
ChosenOption:4

Q.15 In which year was the Television (TV) service started in India? Ans

- 1. 1968
- 2. 1959
- 3. 1986
- 4. 1975

QuestionID:264330113277  
Option1ID:264330445196  
Option2ID:264330445193  
Option3ID:264330445195  
Option4ID:264330445194  
Status:Answered  
ChosenOption:3

Q.16 Electric field can be defined as:

- Ans
- 1. energy per unit charge
  - 2. force per unit current
  - 3. energy per unit current
  - 4. force per unit charge

QuestionID:264330118016  
Option1ID:264330463881  
Option2ID:264330463880  
Option3ID:264330463879  
Option4ID:264330463882  
Status:Answered  
ChosenOption:2

Q.17 When did Bhagat Singh and Batukeshwar Dutt throw the bombs inside the Central Assembly in Delhi?

- Ans  1.8 April 1929  
 2.8 January 1929  
 3.8 March 1929   
 4.8 May 1929

QuestionID:264330111402

Option1ID:264330437695

Option2ID:264330437694

Option3ID:264330437696

Option4ID:264330437693

Status:Answered

ChosenOption:4

Q.18 Match the following columns.

Column-A

Column-B

- |                   |                            |
|-------------------|----------------------------|
| i. Fat            | a. Sugar                   |
| ii. Protein       | b. Calcium and sodium      |
| iii. Carbohydrate | c. Amino acid              |
| iv. Minerals      | d. Glycerol and fatty acid |

- Ans  1. i-c, ii-d, iii-a, iv-b  
 2. i-b, ii-a, iii-d, iv-c  
 3. i-a, ii-b, iii-c, iv-d  
 4. i-d, ii-c, iii-a, iv-b

QuestionID:264330114131

Option1ID:264330448610

Option2ID:264330448611

Option3ID:264330448609

Option4ID:264330448612

Status:Answered

ChosenOption:4

Q.19 According to the Census of India 2011, what is the sex ratio of Daman and Diu? Ans 1.618

- 2.518  
 3.818  
 4.718

QuestionID:264330119810

Option1ID:264330469517

Option2ID:264330469518

Option3ID:264330469515

Option4ID:264330469516

Status:Answered

ChosenOption:4

Q.20 Which of the following adulterants is mixed with sunflower oil and sesame oil to increase their quantity?

- Ans
- 1. Mustard oil
  - 2. Lentil oil
  - 3. Rhodamine
  - 4. Argemone oil

QuestionID:264330109935  
Option1ID:264330432017  
Option2ID:264330432018  
Option3ID:264330432020  
Option4ID:264330432019  
Status:Answered  
ChosenOption:1

Q.21 Which of the following Acts is regarded as the precursor to the Indian Constitution? Ans

- 1. Government of India Act of 1909
- 2. Government of India Act of 1945
- 3. Government of India Act of 1919
- 4. Government of India Act of 1935

QuestionID:264330112753  
Option1ID:264330443097  
Option2ID:264330443100  
Option3ID:264330443098  
Option4ID:264330443099  
Status:Answered  
ChosenOption:4

Q.22 Which of the following is the largest phylum of animalia? Ans

- 1. Mollusca
- 2. Annelida
- 3. Chordata
- 4. Arthropoda

QuestionID:264330103805  
Option1ID:264330407521  
Option2ID:264330407524  
Option3ID:264330407522  
Option4ID:264330407523  
Status:Answered  
ChosenOption:4

Q.23 Name the project which was launched for tackling the increasing HIV prevalence in the eight North-Eastern states.

- Ans
- 1. Mission Aware
  - 2. Mission Sampark
  - 3. Project Sunrise
  - 4. Project Empower

QuestionID:264330156920  
Option1ID:264330615058  
Option2ID:264330615056  
Option3ID:264330615055  
Option4ID:264330615057  
Status:NotAnswered  
ChosenOption:--

Q.24 The boundary line separating one drainage basin from another is called \_\_\_\_\_.

- Ans
- 1. terrace
  - 2. floodplain
  - 3. peneplain
  - 4. watershed

QuestionID:26433055322  
Option1ID:264330216272  
Option2ID:264330216275  
Option3ID:264330216274  
Option4ID:264330216273  
Status:Answered

ChosenOption:2

Q.25 Which of the following measures of money supply is considered most liquid? Ans

- 1. M2
- 2. M4
- 3. M3
- 4. M1

QuestionID:26433092379  
Option1ID:264330362806  
Option2ID:264330362808  
Option3ID:264330362807  
Option4ID:264330362805  
Status:NotAnswered  
ChosenOption:--

Q.26 The first Bose-Einstein condensate (BEC) made of which atom was reported by the team of Eric Cornell and Carl Wieman in 1995?

- Ans
- 1.  $^{87}\text{Rb}$
  - 2.  $^{137}\text{Cs}$
  - 3.  $^{90}\text{Sr}$
  - 4.  $^{228}\text{Ra}$

QuestionID: 264330141689

Option1ID: 264330555075

Option2ID: 264330555078

Option3ID: 264330555077

Option4ID: 264330555076

Status: Answered

ChosenOption: 4

Q.27 Which of the following is a type of shield volcano that is large (up to several 1,000 m high and 200 km across) but NOT steep (usually  $2^\circ$  to  $10^\circ$ ) and the magma is almost always mafic?

- Ans
- 1. Mount Etna, Sicily
  - 2. Mount Fuji, Japan
  - 3. Kilauea volcano, Hawaii
  - 4. Aguilera, Chile

QuestionID: 264330113790

Option1ID: 264330447245

Option2ID: 264330447246

Option3ID: 264330447248

Option4ID: 264330447247

Status: Answered

ChosenOption: 2

Q.28 Where was India House founded in the UK? Ans

- 1. Bristol
- 2. London
- 3. Edinburgh
- 4. Manchester

QuestionID: 264330109048

Option1ID: 264330428471

Option2ID: 264330428469

Option3ID: 264330428472

Option4ID: 264330428470

Status: Not Answered

ChosenOption: --



Q.29 What is the total outlay for the development of Comprehensive Handicrafts Cluster Development Scheme, which has been extended till FY 2026?

Ans

- 1. ₹100 crore
- 2. ₹120 crore
- 3. ₹160 crore
- 4. ₹140 crore

QuestionID:264330156918  
Option1ID:264330615047  
Option2ID:264330615048  
Option3ID:264330615050  
Option4ID:264330615049  
Status:NotAnswered

ChosenOption:--

Q.30 Select the correct pair of Indian classical dance forms of Odissi style

Ans

- 1. Meenakshi Sundaram Pillai and Savitha Sastry
- 2. Sujata Mohapatra and Madhavi Mudgal
- 3. Mallika Sarabhai and Shobha Naidu
- 4. Amala Shankar and Singhajit Singh

QuestionID:264330130516  
Option1ID:264330511178  
Option2ID:264330511176  
Option3ID:264330511177  
Option4ID:264330511175  
Status:NotAnswered

ChosenOption:--

Q.31 Which of the following is NOT included in fundamental duties? Ans

- 1. Respect the national flag and the national anthem
- 2. Focus on personal development and individual activities only
- 3. To value and preserve the rich heritage of our composite culture
- 4. To uphold and protect the sovereignty, unity and integrity of India

QuestionID:264330118533  
Option1ID:264330465533  
Option2ID:264330465536  
Option3ID:264330465535  
Option4ID:264330465534  
Status:Answered

ChosenOption:2

Q.32 President of India, Droupadi Murmu met President of Republic of Suriname, \_\_\_\_\_ on the sidelines of the 17th Pravasi Bharatiya Divas Convention at Indore, Madhya Pradesh on 10 January 2023.

- Ans
- 1. Johan Kraag
  - 2. Ronald Venetiaan
  - 3. Desi Bouterse
  - 4. Chandrikaprasad Santokhi

QuestionID: 264330132578  
Option1ID: 264330519410  
Option2ID: 264330519409  
Option3ID: 264330519408  
Option4ID: 264330519407  
Status: Answered  
ChosenOption: 2

Q.33 How are resources divided on the basis of status of development?

- 1. Biotic and abiotic
- 2. Renewable and non-renewable
- 3. Potential, developed stocks and reserves
- 4. Individual, community, national and international

QuestionID: 26433086757  
Option1ID: 264330340671  
Option2ID: 264330340670  
Option3ID: 264330340669  
Option4ID: 264330340672  
Status: Answered  
ChosenOption: 3

Q.34 Pandit Shambhu Maharaj is a renowned \_\_\_\_\_ dancer.

- Ans
- 1. Sattriya
  - 2. Odissi
  - 3. Kathak
  - 4. Kuchipudi

QuestionID: 26433082118  
Option1ID: 264330322306  
Option2ID: 264330322305  
Option3ID: 264330322307  
Option4ID: 264330322308  
Status: Not Answered  
ChosenOption: --

Q.35 Which of the following is an intermediate goods industry? Ans

- 1. Manufacturing of Cars
- 2. Manufacturing of tools
- 3. Manufacturing of plants and machineries
- 4. Manufacturing of refrigerators

QuestionID:264330144395  
Option1ID:264330565835  
Option2ID:264330565837  
Option3ID:264330565838  
Option4ID:264330565836  
Status:NotAnswered  
ChosenOption:--

Q.36 The Manusmriti, one of the best-known legal texts of early India, is written in \_\_\_\_\_.

- Ans
- 1. Pali
  - 2. Sanskrit
  - 3. Hindi
  - 4. Prakrit

QuestionID:264330111370  
Option1ID:264330437566  
Option2ID:264330437568  
Option3ID:264330437565  
Option4ID:264330437567  
Status:NotAnswered  
ChosenOption:--

Q.37 Which of the following items may NOT be treated as an intermediary good? Ans



- 1. Maida produced in a flour mill
- 2. Maida used in a biscuit factory
- 3. Maida used in a house to make paratha
- 4. Maida used to produce bread in a bakery

QuestionID:264330111727  
Option1ID:264330438995  
Option2ID:264330438994  
Option3ID:264330438993  
Option4ID:264330438996  
Status:NotAnswered  
ChosenOption:--

Q.38 Protection of \_\_\_\_\_ is the fundamental duty of an Indian citizen.

- Ans
- 1. Holy scriptures
  - 2. Children and old people
  - 3. Villages
  - 4. Wildlife

QuestionID:26433086793  
Option1ID:264330340816  
Option2ID:264330340814  
Option3ID:264330340815  
Option4ID:264330340813  
Status:NotAnswered  
ChosenOption:--

Q.39 Who among the following is NOT part of the Goods and Services Tax Council of India? Ans

- 1. Lieutenant Governors of Union Territories
- 2. Union Finance Minister
- 3. Union Minister of State in charge of Revenue or Finance
- 4. The Minister in-charge of Finance of each state or any other minister nominated by state government

QuestionID:264330130463  
Option1ID:264330510966  
Option2ID:264330510965  
Option3ID:264330510963  
Option4ID:264330510964  
Status:NotAnswered  
ChosenOption:--

Q.40 Who was the Governor-General during the Anglo-Nepal war? Ans

- 1. Lord Auckland
- 2. Lord Hardinge
- 3. Lord Wellesley
- 4. Lord Hastings

QuestionID:264330112165  
Option1ID:264330440748  
Option2ID:264330440745  
Option3ID:264330440747  
Option4ID:264330440746  
Status:NotAnswered  
ChosenOption:--

Q.41 In which city will the 2024 Summer Olympic Games be held? Ans

- 1. Beijing
- 2. Berlin
- 3. Paris
- 4. Brisbane

QuestionID:264330119265  
Option1ID:264330467348  
Option2ID:264330467347  
Option3ID:264330467350  
Option4ID:264330467349  
Status:NotAnswered  
ChosenOption:--

Q.42 \_\_\_\_\_ Central Administrative Tribunal benches exist all over India, as of December 2022.

- Ans
- 1. 17
  - 2. 16
  - 3. 19
  - 4. 18

QuestionID:264330119678  
Option1ID:264330468989  
Option2ID:264330468990  
Option3ID:264330468987  
Option4ID:264330468988  
Status:NotAnswered  
ChosenOption:--

Q.43 According to the Global Multidimensional Poverty Index 2022, around \_\_\_\_\_ people in India climbed out of poverty between 2005-06 and 2019-21.

- Ans
- 1. 3.15 million
  - 2. 4.15 million
  - 3. 5.00 million
  - 4. 4.50 million

QuestionID:264330157098  
Option1ID:264330615763  
Option2ID:264330615765  
Option3ID:264330615766  
Option4ID:264330615764  
Status:NotAnswered  
ChosenOption:--

Q.44 Which of the following is an example of a homeothermic animal?

- Ans  1. Salamander  
 2. Cobra  
 3. Tortoise  
 4. Penguin

QuestionID: 264330113319  
Option1ID: 264330445363  
Option2ID: 264330445364  
Option3ID: 264330445361  
Option4ID: 264330445362  
Status: NotAnswered  
ChosenOption: --

Q.45 In which of the following games is the term 'header' associated?

- Ans  1. Badminton  
 2. Football  
 3. Cricket  
 4. Hockey

QuestionID: 264330109734  
Option1ID: 264330431216  
Option2ID: 264330431214  
Option3ID: 264330431215  
Option4ID: 264330431213  
Status: NotAnswered  
ChosenOption: --

Q.46 Which of the following factors are responsible for spoilage of stored food?

- Ans  1. Low temperature and very high pressure  
 2. High temperature and pressure  
 3. Moisture and humidity that can allow microbial growth  
 4. High salt and spice content

QuestionID: 264330109939  
Option1ID: 264330432034  
Option2ID: 264330432033  
Option3ID: 264330432036  
Option4ID: 264330432035  
Status: NotAnswered  
ChosenOption: --

Q.47 Which of the following factors is a geographical factor that affects the distribution of the population in India?

Ans

- 1. Industrialisation
- 2. Climate
- 3. Minerals
- 4. Urbanisation

QuestionID:264330116480  
Option1ID:264330458008  
Option2ID:264330458005  
Option3ID:264330458007  
Option4ID:264330458006  
Status:NotAnswered

ChosenOption:--

Q.48 What is the primary objective of cybersecurity? Ans

- 1. To enhance internet connectivity
- 2. To prevent unauthorised access and data breaches
- 3. To protect computers from physical damage
- 4. To create new software applications

QuestionID:264330168583  
Option1ID:264330661145  
Option2ID:264330661144  
Option3ID:264330661143  
Option4ID:264330661146  
Status:NotAnswered

ChosenOption:--

Q.49 What is the correct sequence of the zones of a pond ecosystem from the bottom to top?

Ans

- 1. Hypolimnion-Thermocline-Epilimnion
- 2. Litoral-Thermocline-Epilimnion
- 3. Hypolimnion-Thermocline-Litoral
- 4. Epilimnion-Hypolimnion-Thermocline

QuestionID:264330114129  
Option1ID:264330448603  
Option2ID:264330448601  
Option3ID:264330448602  
Option4ID:264330448604  
Status:NotAnswered

ChosenOption:--



Section:GeneralEngineeringMechanical

Q.1The value of the gross stage efficiency and Blade efficiency of the single stage of the impulse turbine are 65% and 78% respectively then the value of the nozzle efficiency will be

- Ans
- 1. 83.33%
  - 2. 50%
  - 3. 100%
  - 4. 50.7%

QuestionID:264330100602  
Option1ID:264330394954  
Option2ID:264330394956  
Option3ID:264330394955  
Option4ID:264330394953  
Status:NotAnswered

ChosenOption:--

Q.2Which of the following statements is INCORRECT about the Benson boiler? Ans

- 1. The Benson boiler is heavier than other boilers. ✓
- 2. Benson boilers can be switched on very quickly. ✗
- 3. In Benson boilers, drums are not used. ✗
- 4. The average operating pressure for the Benson boiler is higher than 200 bar. ✗

QuestionID:264330159964  
Option1ID:264330627203  
Option2ID:264330627204  
Option3ID:264330627206  
Option4ID:264330627205

Status:Answered  
ChosenOption:2



Q.3 The process of pushing the heated billet or slug of metal through an die orifice, thus forming an elongated part of a uniform cross-section corresponding to the shape of the die orifice is known as \_\_\_\_\_

- Ans
- 1. Extrusion process
  - 2. Rolling process
  - 3. Drawing process
  - 4. Machining process

QuestionID:264330100609  
Option1ID:264330394982  
Option2ID:264330394983  
Option3ID:264330394981  
Option4ID:264330394984  
Status:Answered  
ChosenOption:3

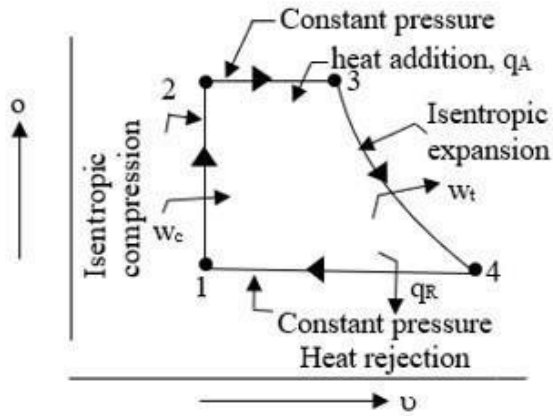
Q.4 Which of the following statements is correct about water-tube and fire-tube boilers? Ans

- 1. In case of water-tube boilers, hot gases flow in the tubes.
- 2. In case of fire-tube boilers, hot gases are surrounded over the tubes.
- 3. In case of fire-tube boilers, water flows in the tubes.
- 4. In case of fire-tube boilers, hot gases flow in the tubes.

QuestionID:264330159932  
Option1ID:264330627078  
Option2ID:264330627077  
Option3ID:264330627075  
Option4ID:264330627076  
Status:Answered  
ChosenOption:4

Q.5

The figure shows the P-V diagram of the \_\_\_\_\_ .



Ans  1.opencyclgasturbine

2.steamengine

3.ottocycle

4.steamturbine

QuestionID:264330100150

Option1ID:264330393174

Option2ID:264330393173

Option3ID:264330393175

Option4ID:264330393176

Status:Answered

ChosenOption:2

Q.6What isthevalueof the density of water at 4°C?Ans

1.10gm/cm<sup>3</sup>

2.1000gm/cm<sup>3</sup>

3.1gm/cm<sup>3</sup>

4.100gm/cm<sup>3</sup>

QuestionID:26433096271

Option1ID:264330377834

Option2ID:264330377836

Option3ID:264330377833

Option4ID:264330377835

Status:Answered

ChosenOption:3

Q.7 A closed vessel contains 5 kg of air, and 50 kJ of heat is given to it. If 75 kJ of work is done by the system, then which of the following is true?  
(Take  $C_p = 1.005 \text{ kJ/kg-K}$ ,  $C_v = 0.718 \text{ kJ/kg-K}$ )

Ans

- 1. The temperature of the air will increase by  $7^\circ$
- 2. The temperature of the air will decrease by  $7^\circ$
- 3. The temperature of the air will increase by  $5^\circ$
- 4. The temperature of the air will decrease by  $34.8^\circ$

QuestionID: 26433099465  
Option1ID: 264330390473  
Option2ID: 264330390474  
Option3ID: 264330390475  
Option4ID: 264330390476  
Status: Answered

ChosenOption: 2

Q.8 Which of the following turbine has 50% degree of reaction? Ans

- 1. Curt turbine
- 2. Hero's turbine
- 3. Rate turbine
- 4. Parson's turbine

QuestionID: 264330100598  
Option1ID: 264330394939  
Option2ID: 264330394938  
Option3ID: 264330394940  
Option4ID: 264330394937

Status: Answered

ChosenOption: 4

Q.9 If the difference of axial components of velocity at inlet and outlet of a de-Laval turbine is found to be 120 m/s and mass flow rate of steam is 7 kg/s then axial thrust on the rotor is

Ans

- 1. 840 N
- 2. 17.14 N
- 3. 7 N
- 4. 120 N

QuestionID: 264330100601  
Option1ID: 264330394952  
Option2ID: 264330394951  
Option3ID: 264330394949  
Option4ID: 264330394950

Status: Not Answered

ChosenOption: --

Q.10 The amount of water striking the runner of the reaction turbine is controlled by \_\_\_\_\_ Ans

- 1. draft tube
- 2. spear arrangement
- 3. casing
- 4. guide mechanism

QuestionID:26433096721  
Option1ID:264330379621  
Option2ID:264330379624  
Option3ID:264330379623  
Option4ID:264330379622  
Status:Answered  
ChosenOption:4

Q.11 What is the unit of measure of actual evaporation in steam boilers? Ans  1. kg fuel burnt/kg water evaporated

- 2.  $m^3/kg$
- 3. kg water evaporated/kg fuel burnt
- 4. kg

QuestionID:264330159957  
Option1ID:264330627177  
Option2ID:264330627178  
Option3ID:264330627176  
Option4ID:264330627175  
Status:Answered  
ChosenOption:3

Q.12 A closed system undergoes a process in which the work done by the system is 100 J and the internal energy decreases by 50 J. According to the first law of thermodynamics, what is the amount of heat transferred into or out of the system?

- Ans  1. 150 J
- 2. 50 J
  - 3. -150 J
  - 4. -50 J

QuestionID:264330157925  
Option1ID:264330619062  
Option2ID:264330619061  
Option3ID:264330619059  
Option4ID:264330619060  
Status:Answered  
ChosenOption:2

Q.13 Which of the following is the correct expression for pressure intensity? Ans

✓ 1.  $P = \rho gh$

✗ 2.  $P = 0.5\rho gh$

✗ 3.  $P = 2\rho gh$

✗ 4.  $P = 1.5\rho gh$

QuestionID:264330159150

Option1ID:264330623959

Option2ID:264330623962

Option3ID:264330623960

Option4ID:264330623961

Status:Answered

ChosenOption:1

Q.14 In the context of work done of turbine, the power developed by the runner depends on which of the following parameters?

Ans ✗ 1. Velocity at the exit of

✗ draft tube 2. Blade velocity

✓ 3. Whirl and blade velocities

✗ 4. Whirl velocity only

QuestionID:264330159161

Option1ID:264330624006

Option2ID:264330624004

Option3ID:264330624005

Option4ID:264330624003

Status:Answered

ChosenOption:3

Q.15 What will be the atmospheric pressure at a location where the barometric reading is 750 mm Hg and the gravitational acceleration is  $g = 9.81 \text{ m/s}^2$ ? Assume the density of mercury to be  $13,600 \text{ kg/m}^3$ .

Ans ✗ 1.

10.006 kPa ✗

2. 100.06 Pa

✗ ✓ 3. 100.06 kPa

4. 1000.6 Pa

QuestionID:26433096281

Option1ID:264330377874

Option2ID:264330377876

Option3ID:264330377875

Option4ID:264330377873

Status:Answered

ChosenOption:2

Q.16 The evaporation of feed water at  $100^{\circ}\text{C}$  in dry and saturated steam at  $100^{\circ}\text{C}$  at atmospheric pressure is known as \_\_\_\_\_.

- Ans
- 1. actual evaporation
  - 2. boiler efficiency
  - 3. boiler horsepower
  - 4. equivalent evaporation

QuestionID:264330159961  
Option1ID:264330627191  
Option2ID:264330627193  
Option3ID:264330627194  
Option4ID:264330627192  
Status:NotAnswered  
ChosenOption:--

Q.17 Which of the following is the correct item for Double Volute centrifugal pumps? Ans

- 1. Flow separation does not take place
- 2. Flow is separated into two equal streams by two-cut water that are  $90^{\circ}$  apart
- 3. Flow is separated into two unequal streams by two-cut water that are  $90^{\circ}$  apart
- 4. Flow is separated into two equal streams by two-cut water that are  $180^{\circ}$  apart

QuestionID:264330159091  
Option1ID:264330623723  
Option2ID:264330623724  
Option3ID:264330623726  
Option4ID:264330623725  
Status:Answered  
ChosenOption:3

Q.18 The bent tube of a Bourdon tube pressure gauge will change its shape when exposed to variations of \_\_\_\_\_.

- Ans
- 1. resistance
  - 2. voltage
  - 3. pressure
  - 4. displacement

QuestionID:26433096302  
Option1ID:264330377960  
Option2ID:264330377958  
Option3ID:264330377959  
Option4ID:264330377957  
Status:Answered  
ChosenOption:3

Q.19 In aqua-ammonia absorption refrigeration system, incomplete refrigeration leads to accumulation of water in:

Ans



1. absorber

2. evaporator

3. heat exchanger

4. condenser

QuestionID:264330157252

Option1ID:264330616372

Option2ID:264330616373

Option3ID:264330616371

Option4ID:264330616374

Status:Answered

ChosenOption:2

Q.20 The difference in low temperature cascade condenser temperature and high temperature cascade evaporator temperature is called \_\_\_\_\_.

Ans

1. degree of superheat

2. temperature overlap

3. average temperature

4. degree of subcooling

QuestionID:264330157197

Option1ID:264330616151

Option2ID:264330616152

Option3ID:264330616154

Option4ID:264330616153

Status:Answered

ChosenOption:2

Q.21 If the cutter and workpiece movements are in opposite directions, the milling process is known as-

Ans



1. Upmilling

2. Downmilling

3. Facemilling

4. Sidemilling

QuestionID:264330100617

Option1ID:264330395013

Option2ID:264330395014

Option3ID:264330395015

Option4ID:264330395016

Status:Answered

ChosenOption:1

Q.22 In actual air-conditioning applications for R-12 and R-22 refrigerant and operating at a condenser temperature of  $40^{\circ}\text{C}$  and an evaporator temperature of  $5^{\circ}\text{C}$ , the heat rejection factor

is about: Ans  1.1.25

2.2.15

3.1

4.5.12

QuestionID:264330160266

Option1ID:264330628404

Option2ID:264330628405

Option3ID:264330628403

Option4ID:264330628406

Status:Answered

ChosenOption:2

Q.23 The pressure intensity at a point in a fluid is given as  $3.924\text{N/cm}^2$ . What will be the corresponding height of fluid when the fluid is water?

Ans

1.4m of water

2.3.5m of water

3.6m of water

4.2.5m of water

QuestionID:264330159260

Option1ID:264330624400

Option2ID:264330624399

Option3ID:264330624402

Option4ID:264330624401

Status:Answered

ChosenOption:1

Q.24 If the line of stroke of a follower passes through the centre of rotation of a cam, then the cam is called \_\_\_\_\_.

Ans

1. oscillating cam and follower

2. globoidal cam

3. radial cam

4. offset cam

QuestionID:264330162540

Option1ID:264330637489

Option2ID:264330637490

Option3ID:264330637488

Option4ID:264330637487

Status:Answered

ChosenOption:2



Q.25 Scavenging phenomenon occurred in Two-stroke IC engine when

- Ans  1. Both transfer port and exhaust port are opened for a while simultaneously
2. Both transfer port and exhaust port are fully closed
3. Both inlet and outlet valve are opened for a while simultaneously
4. Both inlet and outlet valve are fully closed

QuestionID: 264330100586  
Option1ID: 264330394889  
Option2ID: 264330394890  
Option3ID: 264330394891  
Option4ID: 264330394892  
Status: Answered  
ChosenOption: 1

Q.26 Which of the following statements is correct regarding governor?

- Ans  1. It controls acceleration of the prime mover.
2. It controls the temperature of the prime mover.
3. It controls the mean speed of the prime mover.
4. It is not a compulsory device of the prime mover.

QuestionID: 264330162546  
Option1ID: 264330637511  
Option2ID: 264330637514  
Option3ID: 264330637513  
Option4ID: 264330637512  
Status: Answered  
ChosenOption: 3

Q.27 On the stress-strain diagram, the material obeys Hooke's law till:

- Ans  1. upper yield point
2. point of ultimate stress
3. lower yield point
4. elastic limit

QuestionID: 26433099536  
Option1ID: 264330390759  
Option2ID: 264330390760  
Option3ID: 264330390758  
Option4ID: 264330390757  
Status: Answered  
ChosenOption: 4

Q.28 Which of the following statements is true about hot working process?

- Ans
- 1. All hot working processes must be done above local environment temperature.
  - 2. Hot working process is also a cold working process.
  - 3. It is a process of working above recrystallisation temperature of the materials.
  - 4. It is a process of working above room temperature.

QuestionID:264330157515

Option1ID:264330617421

Option2ID:264330617422

Option3ID:264330617420

Option4ID:264330617419

Status:Answered

ChosenOption:3

Q.29 The point of intersection of the line of action of the resultant hydrostatic force and the submerged surface is called \_\_\_\_\_.

- Ans
- 1. centre of mass
  - 2. centre of gravity
  - 3. centre of buoyancy
  - 4. centre of pressure

QuestionID:26433096282

Option1ID:264330377880

Option2ID:264330377879

Option3ID:264330377877

Option4ID:264330377878

Status:Answered

ChosenOption:4

Q.30 The continuity equation  $\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} = 0$  is valid for a \_\_\_\_\_.

- Ans
- 1. unsteady, 2D, compressible flow
  - 2. steady, 2D, compressible flow
  - 3. steady, 2D, incompressible flow
  - 4. unsteady, 2D, incompressible flow

QuestionID:264330100883

Option1ID:264330396080

Option2ID:264330396077

Option3ID:264330396078

Option4ID:264330396079

Status:Answered

ChosenOption:3

Q.31 According to \_\_\_\_\_, the intensity of pressure in a liquid at rest is constant in all directions.

- Ans
- 1. Newton's law
  - 2. Boyle's law
  - 3. hydrostatic law
  - 4. Pascal's law

QuestionID:26433095681  
 Option1ID:264330375508  
 Option2ID:264330375507  
 Option3ID:264330375505  
 Option4ID:264330375506  
 Status:Answered

ChosenOption:4

Q.32 Which of the following statements is correct about the force draught fan used in steam boilers?

- Ans
- 1. The power required by an induced draught fan is equal to that required by a forced draught fan for the same amount of draught.
  - 2. The power required by an induced draught fan is less than that required by a forced draught fan for the same amount of draught.
  - 3. The power required by an induced draught fan is greater than that required by a forced draught fan for the same amount of draught.
  - 4. The power required by an induced draught fan may be greater than or less than that required by a forced draught fan for the same amount of draught.

QuestionID:264330159945  
 Option1ID:264330627129  
 Option2ID:264330627128  
 Option3ID:264330627127  
 Option4ID:264330627130  
 Status:Not Answered

ChosenOption:

Q.33 A solid circular shaft of diameter  $d$  is subjected to the twisting moment  $T$ . Which of the following relations can be used to determine the stress developed in the shaft?

- Ans
- 1.  $\tau = \frac{16T}{\pi d^3}$
  - 2.  $\tau = \frac{32T}{\pi d^3}$
  - 3.  $\tau = \frac{128T}{\pi d^3}$
  - 4.  $\tau = \frac{64T}{\pi d^3}$

QuestionID:26433099952  
 Option1ID:264330392381  
 Option2ID:264330392382  
 Option3ID:264330392384  
 Option4ID:264330392383  
 Status:Answered

ChosenOption:1

Q.34 In which of the following cycle does the heat addition NOT take place at constant volume?

Ans

- 1. Lenoir cycle
- 2. Dual cycle
- 3. Otto cycle
- 4. Diesel cycle

QuestionID:264330157517  
Option1ID:264330617427  
Option2ID:264330617430  
Option3ID:264330617428  
Option4ID:264330617429  
Status:Answered  
ChosenOption:3

Q.35 An impulse turbine is running at 1000 rpm with a net head of 600 m. If the discharge through the nozzle is  $0.1 \text{ m}^3/\text{s}$ , then what will be the power available at the nozzle? Take  $g = 10 \text{ m/s}^2$ .

- Ans  1. 450 kW
- 2. 600 kW
  - 3. 525 kW
  - 4. 700 kW

QuestionID:26433096720  
Option1ID:264330379618  
Option2ID:264330379617  
Option3ID:264330379619  
Option4ID:264330379620  
Status:Answered  
ChosenOption:2

Q.36 Which of the following is NOT the part of venturimeter?

- Ans  1. Throat
- 2. Float
  - 3. Converging part
  - 4. Diverging part

QuestionID:264330159110  
Option1ID:264330623800  
Option2ID:264330623802  
Option3ID:264330623799  
Option4ID:264330623801  
Status:Answered  
ChosenOption:2

Q.37 Ammonia is NOT used in domestic refrigeration and comfort air-conditioning because:

- Ans
- 1. its heat transfer coefficient is very low
  - 2. it is toxic and flammable
  - 3. lubricating oil is not soluble in ammonia at all
  - 4. it is not soluble in water

QuestionID: 26433096789  
Option1ID: 264330379894  
Option2ID: 264330379895  
Option3ID: 264330379896  
Option4ID: 264330379893  
Status: Answered  
ChosenOption: 2

Q.38 If the temperature of 'A' is equal to the temperature of 'B' and 'C', then the temperature of 'B' will be equal to the temperature of 'C'. This is known as:

- Ans
- 1. Joule's law
  - 2. law of thermal equilibrium
  - 3. law of equality of temperature
  - 4. zeroth law of thermodynamics

QuestionID: 26433095636  
Option1ID: 264330375327  
Option2ID: 264330375325  
Option3ID: 264330375328  
Option4ID: 264330375326  
Status: Answered  
ChosenOption: 4

Q.39 The SI unit of specific heat is:

- Ans
- 1. J/kg
  - 2. Jkg/K
  - 3. J/kg.K
  - 4. JK/kg

QuestionID: 26433099487  
Option1ID: 264330390564  
Option2ID: 264330390561  
Option3ID: 264330390563  
Option4ID: 264330390562  
Status: Answered  
ChosenOption: 3

Q.40 In case of dual cycle of an I.C. engine, heat addition is \_\_\_\_\_.

- Ans
- 1. only an isobaric process
  - 2. an isentropic process
  - 3. both an isochoric and an isobaric process
  - 4. only an isochoric process

QuestionID: 264330157518  
Option1ID: 264330617433  
Option2ID: 264330617431  
Option3ID: 264330617434  
Option4ID: 264330617432  
Status: Answered  
ChosenOption: 3

Q.41 Which of the following evaporators are also known as prime - surface evaporators? Ans

- 1. Shell-and-tube evaporators
- 2. Finned-tube evaporators
- 3. Plate evaporators
- 4. Bare-tube coil evaporators

QuestionID: 264330160267  
Option1ID: 264330628410  
Option2ID: 264330628408  
Option3ID: 264330628409  
Option4ID: 264330628407  
Status: Answered  
ChosenOption: 1

Q.42 In which percentage generally is lubricating oil mixed with the fuel, which is then inducted into the carburettor in a mist lubricating system?

- Ans
- 1. 40% to 50%
  - 2. 30% to 40%
  - 3. 3% to 6%
  - 4. Zero

QuestionID: 26433096533  
Option1ID: 264330378871  
Option2ID: 264330378869  
Option3ID: 264330378870  
Option4ID: 264330378872  
Status: Answered  
ChosenOption: 2

Q.43 Which of the following point angles of a twist drill is used for general purpose work? Ans



1.128°

✓ 2.118°

✗ 3.108°

✗ 4.138°

QuestionID:264330159291

Option1ID:264330624525

Option2ID:264330624524

Option3ID:264330624523

Option4ID:264330624526

Status:Answered

ChosenOption:3

Q.44 The function of an air pre-heater is \_\_\_\_\_.

Ans ✗

✗ 1. to decrease the temperature of air after entering the furnace

✗ 2. to increase the temperature of air after entering the furnace

✓ 3. to decrease the temperature of air before entering the furnace

4. to increase the temperature of air before entering the furnace

QuestionID:264330100115

Option1ID:264330393036

Option2ID:264330393035

Option3ID:264330393034

Option4ID:264330393033

Status:Answered

ChosenOption:4

Q.45 What will be the specific weight of one litre of petrol of specific gravity 0.7? (Take  $g = 9.81 \text{ m/sec}^2$ )

Ans ✗ 1.5436 N/m<sup>3</sup>

✓ 2.6867 N/m<sup>3</sup>

✗ 3.7286 N/m<sup>3</sup>

✗ 4.6256 N/m<sup>3</sup>

QuestionID:264330159241

Option1ID:264330624323

Option2ID:264330624326

Option3ID:264330624325

Option4ID:264330624324

Status:Answered

ChosenOption:2

Q.46 Which of the following statements are late d to rope drive sis INCORRECT? Ans

- 1. It is used to transmit power only for shorter distances.
- 2. Rope drives have high mechanical efficiency.
- 3. Shafts do not require exact alignment.
- 4. It has good crushing resistance.

QuestionID:264330166510

Option1ID:264330653084

Option2ID:264330653086

Option3ID:264330653083

Option4ID:264330653085

Status:Answered

ChosenOption:2

Q.47 Which fluid is used to increase the rate of evaporation of the liquid ammonia passing through the evaporator in domestic Electrolux refrigeration system?

- Ans
- 1. Water
  - 2. Ammonia
  - 3. Mercury
  - 4. Hydrogen

QuestionID:264330157250

Option1ID:264330616365

Option2ID:264330616364

Option3ID:264330616366

Option4ID:264330616363

Status:Answered

ChosenOption:1

Q.48 Which of the following equations is used to calculate major losses in pipes? Ans

- 1. Continuity equation
- 2. Momentum equation
- 3. Darcy-Weisbach equation
- 4. Reynolds' equation

QuestionID:26433096129

Option1ID:264330377287

Option2ID:264330377288

Option3ID:264330377285

Option4ID:264330377286

Status:Answered

ChosenOption:3



Q.49 Which of the following about work transfer is NOT correct?

- Ans
- 1. Work is given by the area under the curve on P-V diagram in case of non-flow process.
  - 2. Work transfer is a boundary phenomenon.
  - 3. Work transfer is a thermodynamic property.
  - 4. Work is a transient phenomenon.

QuestionID:26433095635

Option1ID:264330375322

Option2ID:264330375321

Option3ID:264330375324

Option4ID:264330375323

Status:Answered

ChosenOption:3

Q.50  $0.2\text{m}^3$  of an ideal gas at the pressure of 2 MPa and 600 K is expanded isothermally to 5 times the initial volume. It is then cooled to 300 K at constant volume and then compressed back polytropically to its initial state. The pressure just after the constant volume process is

- Ans
- 1. 0.2 MPa
  - 2. 2.0 MPa
  - 3. 0.8 MPa
  - 4. 0.4 MPa

QuestionID:26433099993

Option1ID:264330392546

Option2ID:264330392547

Option3ID:264330392548

Option4ID:264330392545

Status:Answered

ChosenOption:1

Q.51 Match the types of refrigerants with their representations.

Type of Refrigerant	Representation
1. CFC refrigerants	a. R-22
2. HFC refrigerants	b. R-11
3. HC refrigerants	c. R-134a
4. HCFC refrigerants	d. R-290

- Ans
- 1. 1-a;2-c;3-d;4-b
  - 2. 1-a;2-d;3-b;4-c
  - 3. 1-b;2-d;3-c;4-a
  - 4. 1-b;2-c;3-d;4-a

QuestionID:26433096787

Option1ID:264330379885

Option2ID:264330379888

Option3ID:264330379887

Option4ID:264330379886

Status:Answered

ChosenOption:1

Q.52 In the Bell-Coleman refrigeration cycle, the temperature of the refrigerant is maximum at the:

Ans



1. end of constant pressure cooling process

2. end of isentropic expansion

3. end of isentropic compression

4. start of isentropic compression

QuestionID:264330157193

Option1ID:264330616137

Option2ID:264330616136

Option3ID:264330616138

Option4ID:264330616135

Status:Answered

ChosenOption:3

Q.53 The reversible adiabatic process in Mollier chart is represented by \_\_\_\_\_.

Ans



1. a line parallel to the saturated vapour line

2. a vertical line

3. a horizontal line

4. a line parallel to the saturated water line

QuestionID:26433095602

Option1ID:264330375191

Option2ID:264330375190

Option3ID:264330375189

Option4ID:264330375192

Status:Answered

ChosenOption:2

Q.54 Which of the following equations is NOT used in deriving the expression for discharge through the steam nozzle?

Ans



1. Continuity equation

2. Newton's equation of viscosity

3. Momentum equation

4. Steady flow energy equation

QuestionID:264330159967

Option1ID:264330627215

Option2ID:264330627218

Option3ID:264330627216

Option4ID:264330627217

Status:Answered

ChosenOption:2

Q.55 A workpiece is tapered using lathe, where the large diameter is  $D$  and the small diameter is  $d$ . If the length of this workpiece is  $L$ , then the half angle  $\alpha$  is given by:

Ans

✓ 1.  $\tan \alpha = \frac{(D-d)}{2L}$

2.  $\tan \alpha = \frac{(D-d)}{3L}$

3.  $\tan \alpha = \frac{(D-d)}{L}$

4.  $\tan \alpha = \frac{(D-d)}{4L}$

QuestionID: 264330100616

Option1ID: 264330395009

Option2ID: 264330395010

Option3ID: 264330395012

Option4ID: 264330395011

Status: Answered

ChosenOption: 4

Q.56 In a Carnot cycle, \_\_\_\_\_.

Ans



✗ 1. only isothermal processes are reversible

✓ 2. all processes are irreversible

✗ 3. all processes are reversible

4. only adiabatic processes are reversible

QuestionID: 26433099999

Option1ID: 264330392571

Option2ID: 264330392570

Option3ID: 264330392569

Option4ID: 264330392572

Status: Answered

ChosenOption: 3

Q.57 What pressure head of kerosene of specific gravity 0.8 will be equivalent to a pressure head of 100 m of water?

Ans



✗ 1. 125m

✗ 2. 100m

✗ 3. 120m

4. 110m

QuestionID: 26433096290

Option1ID: 264330377909

Option2ID: 264330377910

Option3ID: 264330377911

Option4ID: 264330377912

Status: Answered

ChosenOption: 1

Q.58 Which of the following is a suitable unit for measuring the capacity of refrigeration? Ans

1.kg

✗

✓ 2. TR

✗ 3. kJ

✗ 4. Kw/kg

QuestionID:26433099489

Option1ID:264330390571

Option2ID:264330390569

Option3ID:264330390570

Option4ID:264330390572

Status:Answered

ChosenOption:2

Q.59 Latent heat of vaporisation is NOT the \_\_\_\_\_.

Ans 1. heat required for complete conversion of saturated liquid into dry saturated vapour ✗

✓ 2. heat required for complete conversion of ice into water

✗ 3. heat added at constant temperature of  $100^{\circ}\text{C}$  to convert water into steam

✗ 4. sum of internal latent heat and external work of evaporation

QuestionID:26433099978

Option1ID:264330392485

Option2ID:264330392487

Option3ID:264330392488

Option4ID:264330392486

Status:Answered

ChosenOption:2

Q.60 Which of the following statements about equilibrium is correct?

Ans 1. Summation of all the forces acting in all the possible directions must be non-zero. ✗

✓ 2. Summation of all the forces acting in all the possible directions must be zero.

✗ 3. Summation of all the forces acting in one direction must be zero.

✗ 4. Summation of all the forces acting in one direction must not be zero.

QuestionID:264330162516

Option1ID:264330637393

Option2ID:264330637394

Option3ID:264330637392

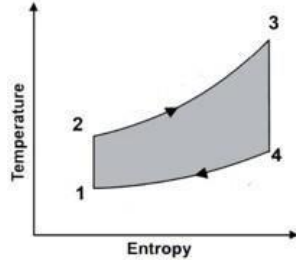
Option4ID:264330637391

Status:Answered

ChosenOption:2

Q.61

In the given T-S diagram of Otto cycle, which of the following processes is a heat addition process?



Ans 1. 2-3

2. 1-2

3. 4-1

4. 3-4

QuestionID:264330157521

Option1ID:264330617444

Option2ID:264330617443

Option3ID:264330617446

Option4ID:264330617445

Status:Answered

ChosenOption:1

Q.62 The correct expression for the dimensional formula of volumetric discharge in the fluid equation is given by \_\_\_\_\_.

Ans  1.  $L^3T^{-1}$

2.  $L^3T^{-3}$

3.  $L^3T^{-2}$

4.  $L^2T^{-1}$

QuestionID:264330159105

Option1ID:264330623782

Option2ID:264330623779

Option3ID:264330623781

Option4ID:264330623780

Status:Answered

ChosenOption:1

Q.63 The unit of density in FPS (Foot Pound System) is given by:

- Ans
- ✓ 1.  $\text{lb}/\text{ft}^3$
  - ✗ 2.  $\text{lb}/\text{ft}^2$
  - ✗ 3.  $\text{lb}/\text{ft}^1$
  - ✗ 4.  $\text{Lb}^2/\text{ft}^3$

QuestionID: 264330159130  
Option1ID: 264330623879  
Option2ID: 264330623880  
Option3ID: 264330623881  
Option4ID: 264330623882  
Status: Answered  
ChosenOption: 1

Q.64 In the boiler mountings, the blow-off cock is fitted at \_\_\_\_\_.

- Ans
- ✗ 1. the top of the boiler shell
  - ✗ 2. the middle of the boiler shell
  - ✓ 3. the bottom of the boiler shell
  - ✗ 4. near the steam supply line

QuestionID: 264330100121  
Option1ID: 264330393057  
Option2ID: 264330393058  
Option3ID: 264330393059  
Option4ID: 264330393060  
Status: Answered  
ChosenOption: 1

Q.65 A thermometer works on the principle of \_\_\_\_\_.

- Ans
- ✗ 1. 2<sup>nd</sup> law of thermodynamics
  - ✗ 2. Joule's law
  - ✗ 3. 3<sup>rd</sup> law of thermodynamics
  - ✓ 4. Zeroth law of thermodynamics

QuestionID: 264330157557  
Option1ID: 264330617587  
Option2ID: 264330617590  
Option3ID: 264330617588  
Option4ID: 264330617589  
Status: Answered  
ChosenOption: 4

Q.66 The velocity of flow between two adjacent streamlines is inversely proportional to the:

- Ans
- 1. specific weight
  - 2. volume flow rate
  - 3. circulation
  - 4. spacing of the streamlines

QuestionID:264330159216  
Option1ID:264330624224  
Option2ID:264330624223  
Option3ID:264330624226  
Option4ID:264330624225  
Status:Answered  
ChosenOption:4

Q.67 Functionality of nozzle is that, \_\_\_\_\_

- Ans
- 1. It produces steam at very low pressure
  - 2. It produces steam jet at very high pressure
  - 3. It produces steam jet at very high velocity
  - 4. It produces steam at very low velocity

QuestionID:264330100592  
Option1ID:264330394916  
Option2ID:264330394913  
Option3ID:264330394914  
Option4ID:264330394915  
Status:Answered  
ChosenOption:3

Q.68 Which of the following is NOT a type of steam separator? Ans

- 1. Reciprocating type
- 2. Impact or baffle type
- 3. Centrifugal type
- 4. Reverse current type

QuestionID:264330100117  
Option1ID:264330393043  
Option2ID:264330393041  
Option3ID:264330393044  
Option4ID:264330393042  
Status:Not Attempted and Marked For Review  
ChosenOption:--

Q.69 If the C.O.P. of 1 TR ammonia-water absorption refrigeration plant is 0.5, then the heat supplied in the generator is \_\_\_\_\_ (1 TR = 3.51 kW)

- Ans
- 1. 10.5
  - kW
  - 2. 1.5 kW
  - 3. 7 kW
  - 4. 3.5 kW

QuestionID: 264330157253  
 Option1ID: 264330616378  
 Option2ID: 264330616377  
 Option3ID: 264330616376  
 Option4ID: 264330616375  
 Status: Answered

ChosenOption: 2

Q.70 Which of the following is NOT an example of brittle material? Ans

- 1. High carbon steel
- 2. Aluminium
- 3. Ceramic materials
- 4. Cast iron

QuestionID: 264330158029  
 Option1ID: 264330619476  
 Option2ID: 264330619478  
 Option3ID: 264330619477  
 Option4ID: 264330619475  
 Status: Answered

ChosenOption: 2

Q.71 A Kaplan turbine has an outside diameter of runner and hub diameters as 4 m and 2 m, respectively. If the velocity of flow at inlet is 8 m/s, then what will be the discharge passing through the turbine?

- Ans
- 1. 68 m<sup>3</sup>/s
  - 2. 6.8 m<sup>3</sup>/s
  - 3. 7.536 m<sup>3</sup>/s
  - 4. 75.36 m<sup>3</sup>/s

QuestionID: 26433099810  
 Option1ID: 264330391838  
 Option2ID: 264330391840  
 Option3ID: 264330391839  
 Option4ID: 264330391837  
 Status: Answered

ChosenOption: 4



Q.72 Which one of the following is correct statement about Blade cross sectional fluid flow area from inlet to outlet of a turbine?

- Ans
- 1. Constant for impulse turbine and diverging for reaction turbine
  - 2. Constant for reaction turbine and converging for impulse turbine
  - 3. Constant for impulse turbine and converging for reaction turbine
  - 4. Constant for reaction turbine and diverging for impulse turbine

QuestionID:264330100597  
Option1ID:264330394935  
Option2ID:264330394934  
Option3ID:264330394933  
Option4ID:264330394936  
Status:Answered  
ChosenOption:2

Q.73 For the same temperature limit, which of the following cycles has maximum efficiency?

- Ans
- 1. Otto cycle
  - 2. Carnot cycle
  - 3. Normal Stirling cycle
  - 4. Diesel cycle

QuestionID:264330157532  
Option1ID:264330617487  
Option2ID:264330617490  
Option3ID:264330617489  
Option4ID:264330617488  
Status:Answered  
ChosenOption:2

Q.74 Which of the following types of simple manometers measure the gauge pressure of only incompressible fluids?

- Ans
- 1. Piezometer
  - 2. Single column manometer
  - 3. U-tube manometer
  - 4. Differential U-tube manometer

QuestionID:264330100874  
Option1ID:264330396043  
Option2ID:264330396042  
Option3ID:264330396041  
Option4ID:264330396044  
Status:Answered  
ChosenOption:3

Q.75 Which among the following options has same thermal efficiency under ideal conditions (Operate within the same temperature)?

- Ans
- 1. Carnot and dual cycle
  - 2. Carnot cycle and Stirling cycle
  - 3. Carnot cycle and Otto cycle
  - 4. Carnot cycle and Brayton cycle

QuestionID: 264330100545  
Option1ID: 264330394725  
Option2ID: 264330394728  
Option3ID: 264330394726  
Option4ID: 264330394727  
Status: Answered  
ChosenOption: 2

Q.76 Which of the following ideal gas processes has the highest polytropic index?

- Ans
- 1. Isentropic process
  - 2. Isochoric process
  - 3. Isothermal process
  - 4. Isobaric process

QuestionID: 264330157552  
Option1ID: 264330617570  
Option2ID: 264330617567  
Option3ID: 264330617568  
Option4ID: 264330617569  
Status: Answered  
ChosenOption: 2

Q.77 Which of the following is the advantage of axial flow pump?

- Ans
- 1. Low volumetric discharge
  - 2. Medium discharge pressure
  - 3. High head
  - 4. High volumetric discharge

QuestionID: 264330159093  
Option1ID: 264330623733  
Option2ID: 264330623732  
Option3ID: 264330623731  
Option4ID: 264330623734  
Status: Answered  
ChosenOption: 4

Q.78 In two-stroke petrol engine, the air-fuel mixture is prepared Ans

- 1. Inside the Transfer Port
- 2. Inside the carburetor and inside the cylinder
- 3. Inside the carburetor but outside the cylinder
- 4. Inside the Crankcase chamber

QuestionID: 264330100587

Option1ID: 264330394893

Option2ID: 264330394895

Option3ID: 264330394896

Option4ID: 264330394894

Status: Answered

ChosenOption: 3

Q.79 What will be the ratio of the pressures inside of two fluids, one with a liquid column of 0.4 m of water and the other with a liquid column of 0.2 m of an oil of specific gravity 0.8?

Ans

1.  $\frac{3}{2}$

2. 2

3.  $\frac{7}{2}$

4.  $\frac{5}{2}$

QuestionID: 264330100869

Option1ID: 264330396023

Option2ID: 264330396021

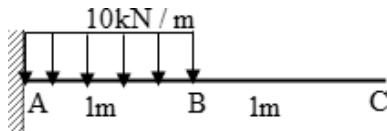
Option3ID: 264330396022

Option4ID: 264330396024

Status: Answered

ChosenOption: 4

Q.80 A cantilever beam carries a uniformly distributed load over a span of 1 m as shown in the figure below. The reactive moment at point A is \_\_\_\_\_.



- Ans
- 1.30
  - kN-m
  - 2.0 kN-m
  - 3.10 kN-m
  - 4.5 kN-m

QuestionID:264330162511  
 Option1ID:264330637373  
 Option2ID:264330637371  
 Option3ID:264330637372  
 Option4ID:264330637374  
 Status:Answered

ChosenOption:4

Q.81 For a laminar flow through a circular pipe, the wall shear stress across a section is a function of

- Ans
1. the pressure gradient  $\frac{dp}{dz}$  and the radial coordinate  $r$
  2. the pressure gradient  $\frac{dp}{dz}$  and the radius  $R$
  3. the pressure gradient  $\frac{dp}{dz}$  and the axial velocity  $V_z$
  4. only the pressure gradient  $\frac{dp}{dz}$

QuestionID:264330100878  
 Option1ID:264330396057  
 Option2ID:264330396059  
 Option3ID:264330396060  
 Option4ID:264330396058  
 Status:Answered

ChosenOption:2

Q.82 If head imparted by impeller to water is equal to manometric head, then the manometric efficiency of the centrifugal pump will be:

- Ans
- 1. 1.75%
  - 2. 2.50%
  - 3. 100%
  - 4. 0%

QuestionID:264330159205  
 Option1ID:264330624182  
 Option2ID:264330624179  
 Option3ID:264330624180  
 Option4ID:264330624181  
 Status:NotAnswered

ChosenOption:

Q.83 If the pressure intensity at a point in a fluid is given as  $2.7 \text{ N/cm}^2$ , then what will be the pressure head of oil of specific gravity 0.9 at that point? Take  $g = 10 \text{ m/s}^2$ .

Ans

- 1.3m of oil
- 2.3m of oil
- 3.3cm of oil
- 4.30cm of oil

QuestionID:26433096296  
 Option1ID:264330377936  
 Option2ID:264330377934  
 Option3ID:264330377933  
 Option4ID:264330377935  
 Status:Answered

ChosenOption:2

Q.84 If 5 litres of a certain oil weighs 30N, then what will be the specific weight of that oil? Ans

- 1.6000  $\text{N/m}^3$
- 2.3000  $\text{N/m}^3$
- 3.6000  $\text{N/m}^3$
- 4.3000  $\text{N/m}^3$

QuestionID:26433096276  
 Option1ID:264330377856  
 Option2ID:264330377853  
 Option3ID:264330377854  
 Option4ID:264330377855  
 Status:Answered

ChosenOption:1

Q.85 A circular opening, 3 m diameter, in a vertical side of a tank is closed by a disc of 3 m diameter which can rotate about a horizontal diameter and depth of centre of gravity from free surface is 4 m. What will be the total pressure on the disc?

- Ans
- 1.277.4kN
  - 2.175.7kN
  - 3.234.89kN
  - 4.100kN

QuestionID:264330159257  
 Option1ID:264330624390  
 Option2ID:264330624387  
 Option3ID:264330624388  
 Option4ID:264330624389  
 Status:NotAnswered

ChosenOption:--

Q.86 Water is flowing steadily at a velocity of 20 m/s through a pipe of diameter 0.2 m. The pressure and elevation at point X are 400 kN/m<sup>2</sup> and 32 m, respectively, while those at another point Y are 300 kN/m<sup>2</sup> and 34 m, respectively. What will be the head loss between the points X and Y?

Take  $g = 10 \text{ m/s}^2$ .

Ans 1.6m

✓ 2.8m

✗ 3.4m

✗ 4.10m

QuestionID:264330100882

Option1ID:264330396074

Option2ID:264330396075

Option3ID:264330396076

Option4ID:264330396073

Status:Answered

ChosenOption:2

Q.87 In Be II-Coleman Cycle, the pressure at the end of isentropic compression is same as:

✗ 1. the pressure in constant pressure expansion

✓ 2. the pressure at the start of isentropic expansion

✗ 3. the pressure at the end of isentropic expansion

✗ 4. the pressure at the start of isentropic compression

QuestionID:264330157191

Option1ID:264330616130

Option2ID:264330616129

Option3ID:264330616128

Option4ID:264330616127

Status:Answered

ChosenOption:2

Q.88 Which of the following is NOT a merit of deadweight safety valve? Ans ✗

1. It is a good choice for low-pressure vessels

✓ 2. Suitable for high pressure boiler

✗ 3. Gives satisfactory performance during operation

✗ 4. Simplicity of design

QuestionID:264330100122

Option1ID:264330393064

Option2ID:264330393062

Option3ID:264330393063

Option4ID:264330393061

Status:Answered

ChosenOption:1

Q.89 If the manometric efficiency and mechanical efficiency of a centrifugal pump are 70% and 80%, respectively, then the overall efficiency will be:

- Ans
- 1. 1.40%
  - 2. 2.56%
  - 3. 3.80%
  - 4. 4.75%

QuestionID:264330159207  
Option1ID:264330624187  
Option2ID:264330624189  
Option3ID:264330624190  
Option4ID:264330624188  
Status:Answered  
ChosenOption:2

Q.90 The dimensional formula for specific gravity is given by:

- Ans
- 1.  $M^1L^0T^1$
  - 2.  $M^1L^1T^0$
  - 3.  $M^0L^0T^0$
  - 4.  $M^0L^1T^1$

QuestionID:26433095694  
Option1ID:264330375559  
Option2ID:264330375557  
Option3ID:264330375560  
Option4ID:264330375558  
Status:Answered  
ChosenOption:3

Q.91 Which of the following is a forced circulation type of boiler? Ans

- 1. Cochran boiler
- 2. Lancashire boiler
- 3. LaMont boiler
- 4. Babcock & Wilcox boiler

QuestionID:264330159965  
Option1ID:264330627210  
Option2ID:264330627208  
Option3ID:264330627209  
Option4ID:264330627207  
Status:Answered  
ChosenOption:3

Q.92 Which of the following is an isochoric process? Ans

- 1. Heat is supplied during evaporation.
- 2. Heat supplied is zero.
- 3. Heating of steam in a closed rigid vessel.
- 4. Heating of steam in a cylinder containing a sliding piston.

QuestionID:26433095604  
Option1ID:264330375200  
Option2ID:264330375199  
Option3ID:264330375197  
Option4ID:264330375198  
Status:Answered  
ChosenOption:3

Q.93 Which of the following statements hold true, according to Kelvin Planck's statement?

- Ans
- 1. Some amount of heat taken from a source must be rejected to a higher temperature sink.
  - 2. Perpetual motion machine of the 2nd kind is impossible.
  - 3. It restricts the engine to have mechanical efficiency less than unity.
  - 4. A heat engine must exchange heat from a single heat reservoir.

QuestionID:264330157537  
Option1ID:264330617507  
Option2ID:264330617510  
Option3ID:264330617508  
Option4ID:264330617509  
Status:Answered  
ChosenOption:3

Q.94 The ratio of the actual mass flow rate to that due to isentropic expansion in the nozzle is known as \_\_\_\_\_.

- Ans
- 1. coefficient of discharge
  - 2. Mach number
  - 3. critical pressure ratio
  - 4. nozzle efficiency

QuestionID:264330159969  
Option1ID:264330627224  
Option2ID:264330627226  
Option3ID:264330627225  
Option4ID:264330627223  
Status:NotAnswered  
ChosenOption:--



Q.95 What is the main function of the condenser in a Rankine cycle power plant? Ans



- 1. To decrease the efficiency of the cycle
- ✓ 2. To condense the steam till it transforms into saturated liquid
- ✗ 3. To increase the temperature of the cooling water
- ✗ 4. To increase the pressure of the steam

QuestionID: 264330157919  
Option1ID: 264330619038  
Option2ID: 264330619036  
Option3ID: 264330619037  
Option4ID: 264330619035  
Status: Answered  
ChosenOption: 2

Q.96 The direction of the friction force is:

- Ans
- ✓ 1. in the opposite direction of motion of the body or in the opposite direction of the tendency to move
  - ✗ 2. in the perpendicular direction of the motion of the body
  - ✗ 3. in the inclined direction of the motion of the body
  - ✗ 4. in the direction of motion of the body

QuestionID: 26433096669  
Option1ID: 264330379414  
Option2ID: 264330379415  
Option3ID: 264330379416  
Option4ID: 264330379413  
Status: Answered  
ChosenOption: 1

Q.97 Heat addition during the constant pressure process is equal to \_\_\_\_\_.

- Ans
- ✗ 1. change in entropy
  - ✗ 2. change in internal energy
  - ✗ 3. specific heat
  - ✓ 4. change in enthalpy

QuestionID: 26433095595  
Option1ID: 264330375161  
Option2ID: 264330375163  
Option3ID: 264330375164  
Option4ID: 264330375162  
Status: Answered  
ChosenOption: 4

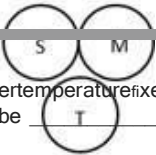
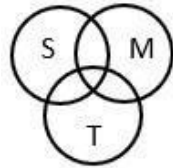
Q.98 In the refrigeration system, heat rejection factor is the ratio of \_\_\_\_\_.

- Ans
- 1. load on the condenser to the COP ❌
  - 2. refrigeration capacity to the work done by compressor ❌
  - 3. work done by compressor to the refrigeration capacity ❌
  - 4. heat rejected to the refrigeration capacity ✅

QuestionID:26433096778  
 Option1ID:264330379852  
 Option2ID:264330379849  
 Option3ID:264330379851  
 Option4ID:264330379850  
 Status:Answered  
 ChosenOption:1

Q.99 Which of the following pressure measurement devices consists of a hollow metal tube bent like a hook whose end is closed and connected to a dial indicator needle?

- Ans
- 1. Piezoelectric transducers ❌
  - 2. Strain-gauge pressure transducers ❌
  - 3. Bourdon tube ✅
  - 4. Pressure transducers ❌



QuestionID:26433096299  
 Option1ID:264330377947  
 Option2ID:264330377948  
 Option3ID:264330377946  
 Option4ID:264330377945  
 Status:Answered  
 ChosenOption:3

Q.100 If the low temperature fixed by the refrigeration application is high, the C.O.P. of the Carnot refrigerator will be \_\_\_\_\_.

- Ans ..... 1. less ❌
- 2. very less ❌
  - 3. the same ❌
  - 4. high ✅

QuestionID:264330157192  
 Option1ID:264330616131  
 Option2ID:264330616133  
 Option3ID:264330616134  
 Option4ID:264330616132  
 Status:Answered  
 ChosenOption:4

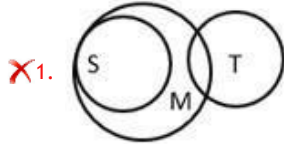
RollNumber	SSC JE 2023 Oct 11 Shift 2 Mechanical Question Paper with Answers
CandidateName	
VenueName	
ExamDate	11/10/2023
ExamTime	1:00PM-3:00PM
Subject	JuniorEngineer2023MechanicalPaperI

Section : GeneralIntelligenceandReasoning

Q.1 SelecttheVenndiagramthatbestillustratestherelationshipbetweenthefollowingclasses.

Sisters,Mothers,Teachers

Ans



X2.

✓3.

X4.

QuestionID:264330144582

Option1ID:264330566583

Option2ID:264330566585

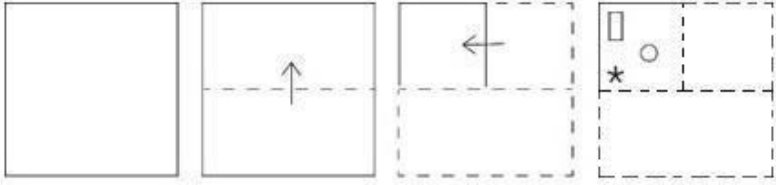
Option3ID:264330566586

Option4ID:264330566584

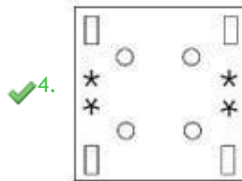
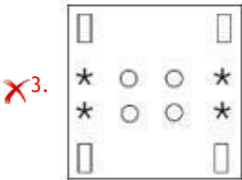
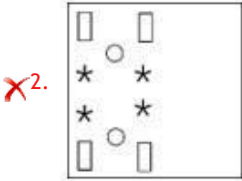
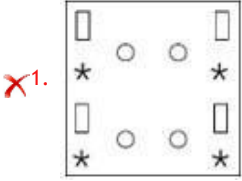
Status:Answered

ChosenOption:3

Q.2 A paper is folded and cut as shown below. How will it appear when unfolded?



Ans



QuestionID:264330103011

Option1ID:264330404433

Option2ID:264330404434

Option3ID:264330404436

Option4ID:264330404435

Status:Answered

ChosenOption:4

Q.3 कसो तवो रममी जीदएककओरईगतकरतीएरीलनवीकहोी"वहमवीरवीपतीकपुी कपुीकी कतीपतीहवी।"तवो रममी जीदकीररीलसीयीसीबोधही

Ans ✗ 1. पु

✓ 2. बहनोई

✗ 3. भीजी

✗ 4. भाई

QuestionID:26433086261

Option1ID:264330338739

Option2ID:264330338738

Option3ID:264330338740

Option4ID:264330338737

Status:Answered

ChosenOption:2

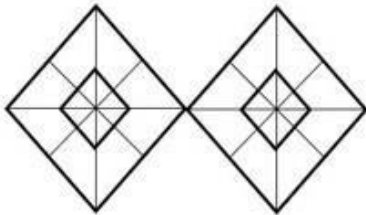
Q.48 friends, Abhay, Bala, Chan, Dev, Emran, Fanny, Geeta and Hema are sitting around a square table such that four of them sit at the corners and the other four sit at the exact centre of the sides. Those sitting at the corners are facing outside while those sitting at the centre of the sides are facing the centre. Dev is sitting third to the right of Geeta and is facing the centre. Emran is third to the left of Chan who is not sitting at the centre of the sides. Only one person sits between Emran and Fanny. Fanny is not Chan's neighbour. Hema is sitting facing the centre. Abhay is not Fanny's neighbour. Who is sitting third to the right of Chan?

- Ans
- 1. Bala
  - 2. Fanny
  - 3. Emran
  - 4. Geeta

QuestionID:26433085631  
 Option1ID:264330336225  
 Option2ID:264330336227  
 Option3ID:264330336228  
 Option4ID:264330336226  
 Status:NotAnswered

ChosenOption:--

Q.5 How many squares are there in the given figure?



- Ans
- 1. 16
  - 2. 20
  - 3. 18
  - 4. 22

QuestionID:26433068431  
 Option1ID:264330268236  
 Option2ID:264330268238  
 Option3ID:264330268237  
 Option4ID:264330268239  
 Status:Answered

ChosenOption:2

Q.6 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.

56:14::88:?:32:11

- Ans
- 1. 15
  - 2. 18
  - 3. 23
  - 4. 28

QuestionID:264330126044  
Option1ID:264330493848  
Option2ID:264330493851  
Option3ID:264330493849  
Option4ID:264330493850  
Status:Answered  
ChosenOption:3

Q.7 Which two signs should be interchanged to make the given equation correct?  $36 - 5 + 240 + 6 \times 17 = 203$

- Ans
- 1. + and -
  - 2. - and  $\times$
  - 3.  $\times$  and +
  - 4. + and +

QuestionID:264330129529  
Option1ID:264330507482  
Option2ID:264330507485  
Option3ID:264330507484  
Option4ID:264330507483  
Status:Answered  
ChosenOption:2

Q.8 Select the set in which the numbers are related in the same way as are the numbers of the following set

(NOTE: Operations should be performed on the whole numbers, without breaking down the number into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(7, 340, 3)  
(4, 63, 1)

- Ans
- 1. (3, 23, 4)
  - 2. (3, 56, 7)
  - 3. (9, 34, 1)
  - 4. (2, 6, 1)

QuestionID:264330144449  
Option1ID:264330566054  
Option2ID:264330566052  
Option3ID:264330566053  
Option4ID:264330566051  
Status:Answered  
ChosenOption:1

Q.9:5FSH'isrelatedto'10HUJ'inacertainway.Inthesameway,'8STH'isrelatedto'16UVJ'.Whichofthefollo wingisrelatedto'12PEP' usingthesamelogic?

Ans

1.24MCM

2.18NCN

3.24NCN

4.6NCN

QuestionID:264330144607

Option1ID:264330566684

Option2ID:264330566686

Option3ID:264330566683

Option4ID:264330566685

Status:Answered

ChosenOption:3

Q.10Inacertaincodelanguage,'CROSS'iswrittenas'66'and'CHART'iswrittenas'90'.Howwill'SYMBOL'bewritteninthatlanguage?

Ans  1.82

2.76

3.88

4.93

QuestionID:264330144554

Option1ID:264330566473

Option2ID:264330566472

Option3ID:264330566471

Option4ID:264330566474

Status:Answered

ChosenOption:1

Q.11Selecttheoptionthatrepresents.thecorrectorderofthegivenwordsastheywouldappear inanEngli shdictionary.

1. Manager
2. Maintain
3. Malice
4. Match
5. Mark

Ans  1.2,3,1,4,5

2.2,3,1,5,4

3.1,5,3,4,2

4.1,2,3,4,5

QuestionID:264330132449

Option1ID:264330518891

Option2ID:264330518893

Option3ID:264330518894

Option4ID:264330518892

Status:Answered

ChosenOption:2

Q.12 Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.



- Ans
1. K % 2 e n 2 O
  2. K % 2 e n 2 O
  3. K % 2 e n 2 O
  4. K % 2 e n 2 O

QuestionID:264330144785

Option1ID:264330567395

Option2ID:264330567397

Option3ID:264330567396

Option4ID:264330567398

Status:Answered

ChosenOption:2

Q.13 Which of the following numbers will replace the question mark (?) in the given series? 143, 153, 146, ?, 142, 152

- Ans
1. 145
  2. 156
  3. 155
  4. 144

QuestionID:26433091719

Option1ID:264330360244

Option2ID:264330360241

Option3ID:264330360243

Option4ID:264330360242

Status:Answered

ChosenOption:2



Q.14 Arrange the following words in a logical and meaningful order.

1. chapter
2. sentence
3. letter
4. phrase
5. word

Ans  1.3,4,2,1,5

2.3,4,5,1,2

3.3,5,4,2,1

4.3,4,5,2,1

QuestionID:26433082525

Option1ID:264330323933

Option2ID:264330323936

Option3ID:264330323935

Option4ID:264330323934

Status:Answered

ChosenOption:3

Q.15 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Demography
2. Denial
3. Demonstrate
4. Dense
5. Demolish

Ans  1.1,5,3,4,2

2.1,5,3,2,4

3.1,3,5,2,4

4.1,5,2,3,4

QuestionID:264330129548

Option1ID:264330507561

Option2ID:264330507560

Option3ID:264330507558

Option4ID:264330507559

Status:Answered

ChosenOption:2

Q.16 In a certain code language, "CTA" is coded as "1203" and "RXB" is coded as "22418". How will "MQV" be coded in that language?

Ans  1.211419

2.221713

3.211812

4.201614

QuestionID:264330132246

Option1ID:264330518082

Option2ID:264330518079

Option3ID:264330518080

Option4ID:264330518081

Status:Answered

ChosenOption:2

Q.17 Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All clothes are jeans. A  
All jeans are shirts.

Conclusions:

I. All clothes are shirts.  
II. At least some shirts are jeans. An

- s
- 1. Only conclusion II follows
  - 2. Both conclusions I and II follow
  - 3. Neither conclusion I nor II follows
  - 4. Only conclusion I follows

QuestionID:264330144656

Option1ID:264330566880

Option2ID:264330566881

Option3ID:264330566882

Option4ID:264330566879

Status:Answered

ChosenOption:2

Q.18 Select the combination of letters that when sequentially placed in the blanks of the given series, will complete the series.

R \_ M L \_ P \_ P \_ N P R \_ M L \_ P \_ P \_ L N \_ A

- ns
- 1. PNMRLPNMRP
  - 2. PNRMLPNRMP
  - 3. PNRMPLNRPM
  - 4. NPRMLNPRMP

QuestionID:264330144516

Option1ID:264330566320

Option2ID:264330566319

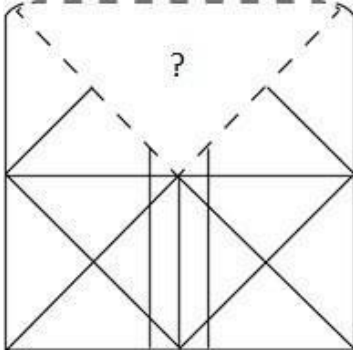
Option3ID:264330566322

Option4ID:264330566321

Status:Answered

ChosenOption:2

Q.19 Select the figure from the options that can replace the question mark (?) and complete the pattern.



Ans

~~X~~1.

✓2.

~~X~~3.

~~X~~4.

QuestionID:26433092783

Option1ID:264330364422

Option2ID:264330364421

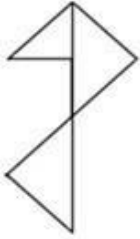
Option3ID:264330364424

Option4ID:264330364423

Status:Answered

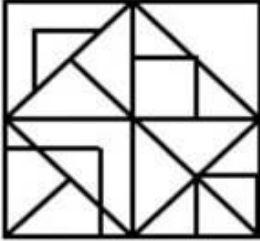
ChosenOption:3

Q.20 Select the option in which the given figure is embedded (rotation is NOT allowed).

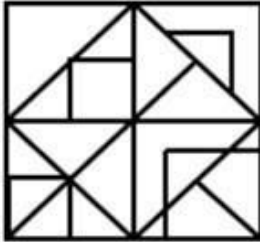


Ans

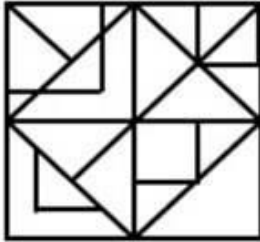
X1.



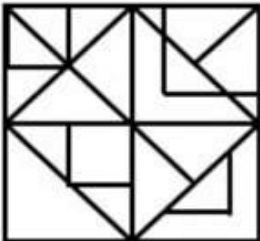
✓2.



X3.



X4.



QuestionID:264330129544

Option1ID:264330507543

Option2ID:264330507545

Option3ID:264330507544

Option4ID:264330507542

Status:Answered

ChosenOption:2

Q.21 उससह वकपकाचयनकर, जोननलखतशदक ताकक औरसाथकममवापनकोइकरताह।

1. नवजातशशु
2. कशोर
3. नहाबा
4. वयक
5. िण

Ans  1. 53142

2. 14532

3. 51324

4. 13254

QuestionID:264330131043

Option1ID:264330513285

Option2ID:264330513283

Option3ID:264330513286

Option4ID:264330513284

Status:Answered

ChosenOption:3

Q.22 Inacertain codelanguage, 'CARRY'is coded asYRUAC and'HUMAN'is codedas NAPUH.Howwil'NIGHT'becodedinthatlanguage?

Ans

1. TGHIN

2. TGHNI

3. THJIN

4. THKIN

QuestionID:264330133211

Option1ID:264330521893

Option2ID:264330521892

Option3ID:264330521894

Option4ID:264330521891

Status:Answered

ChosenOption:3

Q.23 उसशदयुमकाचयनकजए, जसमदएगएदोनशदएकसर सउस तरहस सधतह, जसतरहएयुमक

दोनशदएकसर ससबधतह।

(शदकोसाथकशदमानाजानाचाहए, औरशदमअरकसण/ीजन/वरकसणक आधारपरएकसर ससबधतनहहोना चाहए।)

चार(Propagate): सार(Disseminate)

Ans  1. तपर (Prompt): दमत

(Quash) 2. प जन

य(Sublime): दर्य(Divine) 3. त

त(Rapidity): जड़ता(Inertia)

4. पव(Sacred): अपव(Profane)

QuestionID:264330114740

Option1ID:264330451045

Option2ID:264330451046

Option3ID:264330451048

Option4ID:264330451047

Status:Answered

ChosenOption:2

Q.24 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.

529:21::?:19::841:27

Ans  1.484

2.361

3.402

4.441

QuestionID:264330144442

Option1ID:264330566026

Option2ID:264330566023

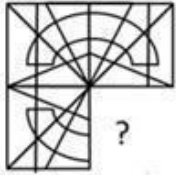
Option3ID:264330566025

Option4ID:264330566024

Status:Answered

ChosenOption:4

Q.25 Select the figure which will replace the question mark (?) in the given figure to complete the pattern.



Ans



QuestionID:26433085667

Option1ID:264330336370

Option2ID:264330336371

Option3ID:264330336372

Option4ID:264330336369

Status:Answered

ChosenOption:3

Q.26 Which of the following numbers will replace the question marks (?) in the given series? 523, 513, ?, 496, ?, 483, 478, 474

- Ans
- 1. 504, 489
  - 2. 500, 488
  - 3. 509, 490
  - 4. 510, 490

QuestionID:26433096011  
Option1ID:264330376815  
Option2ID:264330376813  
Option3ID:264330376816  
Option4ID:264330376814  
Status:Answered  
ChosenOption:1

Q.27 Which two signs should be interchanged to make the given equation correct?  $9 \times 182 + 14 \div 67 - 33 = 151$

- Ans
- 1. ÷ and -
  - 2. - and ×
  - 3. ÷ and +
  - 4. × and +

QuestionID:264330129537  
Option1ID:264330507514  
Option2ID:264330507517  
Option3ID:264330507515  
Option4ID:264330507516  
Status:Not Attempted and Marked For Review  
ChosenOption:--

Q.28 Six friends are sitting in a circle facing the centre. Sumit sits second to the right of Amit. Karan is an immediate neighbour of Param. Tony sits third to the right of Amit. Dharam is an immediate neighbour of Amit and Sumit. Karan sits second to the right of Sumit.

Who sits to the immediate left of Amit?

- Ans
- 1. Dharam
  - 2. Param
  - 3. Karan
  - 4. Tony

QuestionID:264330144640  
Option1ID:264330566816  
Option2ID:264330566815  
Option3ID:264330566817  
Option4ID:264330566818  
Status:Not Answered  
ChosenOption:--

Q.29 Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.

FYU2VD

P ————— Q

Ans

- 1. 
- 2. 
- 3. 
- 4. 

QuestionID:26433056844

Option1ID:264330222363

Option2ID:264330222362

Option3ID:264330222361

Option4ID:264330222360

Status:Answered

ChosenOption:2

Q.30 Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.  
18:52::8:22::12:?

Ans  1.34

 2.38

 3.28

 4.43

QuestionID:26433078934

Option1ID:264330309749

Option2ID:264330309748

Option3ID:264330309751

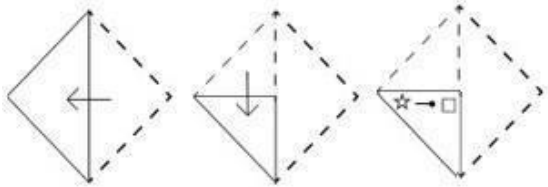
Option4ID:264330309750

Status:Answered

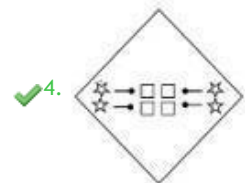
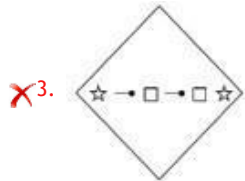
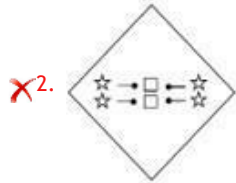
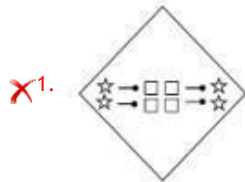
ChosenOption:1



Q.31 A paper is folded and cut as shown below. How will it appear when unfolded?



Ans



QuestionID:264330103015

Option1ID:264330404451

Option2ID:264330404452

Option3ID:264330404449

Option4ID:264330404450

Status:Answered

ChosenOption:4

Q.32 A is the mother of B. B is the husband of C. D is the father-in-law of C. How is A related to D?

Ans ✓

✗ 1. Wife

✗ 2. Father

✗ 3. Sister

4. Mother

QuestionID:26433092474

Option1ID:264330363187

Option2ID:264330363188

Option3ID:264330363186

Option4ID:264330363185

Status:Answered

ChosenOption:1

Q.33 In a certain code language, 'POLISH' is written as '89' and 'CLIP' is written as '72'. How will 'CONTR OL' be written in that language?

Ans  1. 106

2. 99

3. 89

4. 92

QuestionID:264330144552

Option1ID:264330566464

Option2ID:264330566465

Option3ID:264330566466

Option4ID:264330566463

Status:Answered

ChosenOption:2

Q.34 Which letter cluster will replace the question mark (?) to complete the given series?

JIVC, DEXH, XAZM, ?

Ans  1. RWBR

2. RWCR

3. RXBR

4. RXCR

QuestionID:264330144644

Option1ID:264330566834

Option2ID:264330566832

Option3ID:264330566833

Option4ID:264330566831

Status:Answered

ChosenOption:1

Q.35 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Ink:Pen::Paint:?

Ans  1. Art

2. Brush

3. Paper

4. Sketch

QuestionID:264330144660

Option1ID:264330566895

Option2ID:264330566896

Option3ID:264330566897

Option4ID:264330566898

Status:Answered

ChosenOption:2

Q.36 Point G is 9m to the west of Point H. Point B is 10m to the north of Point H. Point A is 18m to the west of Point B. Point C is 28m to the north of Point A. Point C is 23m to the west of Point D. Point E is 18m to the south of Point D. Point F is 5m to the west of Point E. What is the distance between Point H and Point F?

Ans  1.10m

2.15m

3.18m

4.20m

QuestionID:264330131633

Option1ID:264330515631

Option2ID:264330515634

Option3ID:264330515632

Option4ID:264330515633

Status:NotAnswered

ChosenOption:--

Q.37 Select the figure from the options that can replace the question mark (?) and complete the given pattern.

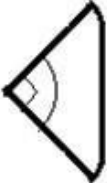


Ans

X1.



X2.



✓3.



X4.



QuestionID:26433074801  
Option1ID:264330293295  
Option2ID:264330293292  
Option3ID:264330293293  
Option4ID:264330293294  
Status:Answered

ChosenOption:3

Q.38MaanvicyclesXkmtowardsthenorthfromherhomeandthenturnsrightandcyclesYkmtoreachPoi  
ntA.ShethenturnsleftandcyclesforX+Ykmtoreachhershops.Ifshecycledfor a total of 12 km  
from her home to her shop, what is the distance between Point A andhershops?

- Ans  1.7km  
 2.3km  
 3.6km  
 4.4km

QuestionID:26433097235

Option1ID:264330381639

Option2ID:264330381640

Option3ID:264330381638

Option4ID:264330381637

Status:NotAnswered

ChosenOption:--

Q.39Selectthecorrectcombinationofmathematicalsignstosequentiallyreplacethe\*signsandbalanc  
ethegivenequation.  
 $13*64*2*8*11=18$

- Ans  1.  $\times \div + +$    
 2.  $\times \div + -$   
 3.  $+ - \times \div$   
 4.  $+ \times \div -$

QuestionID:26433068594

Option1ID:264330268889

Option2ID:264330268891

Option3ID:264330268890

Option4ID:264330268888

Status:NotAttemptedand  
MarkedForReview

ChosenOption:--

Q.40उसवकपकाचयनकजए,जोत सर शदसउ स कारसतह,जसकारसराशदपहल शदससतह।(शदकोअथप  
दक पममानाजानाचाहए,औरशदमअरकसश/यजन/  
वरकसशक आधारपरएकसर ससतनहहोनाचाहए।)

वत(Organise):ब तरत ब(Jumble):वद श (Overseas):?

- Ans  1. परद श(Foreign)  
 2. घर ल(Domestic)  
 3. वद श(Abroad)  
 4. एलयन(Alien)

QuestionID:264330144566

Option1ID:264330566520

Option2ID:264330566521

Option3ID:264330566519

Option4ID:264330566522

Status:Answered

ChosenOption:2

Q.41 Select the option that represents the letters which, when sequentially placed from left to right in the blanks below, will complete the letter series.  
\_EN\_AE\_DR\_EAns

- 1. RNADA
- 2. ADRNA
- 3. NRADA
- 4. DNAAR

QuestionID:26433086964  
Option1ID:264330341500  
Option2ID:264330341497  
Option3ID:264330341498  
Option4ID:264330341499  
Status:Answered  
ChosenOption:1

Q.42 Which of the following option figures will complete the pattern in the figure given below?



Ans

- 1.
- 2.
- 3.
- 4.

QuestionID:26433080581  
Option1ID:264330316257  
Option2ID:264330316259  
Option3ID:264330316260  
Option4ID:264330316258  
Status:Answered  
ChosenOption:4

Q.43 'NEST' is related to 'PHUW' in a certain way based on the English alphabetical order. In the same way, 'PW SR' is related to 'RZUU'. Which of the following is related to 'MORG' using the same logic?

Ans



1. KLPD

2. KLOD

3. KLPE

4. KLQD

QuestionID:264330144608

Option1ID:264330566688

Option2ID:264330566690

Option3ID:264330566687

Option4ID:264330566689

Status:NotAnswered

ChosenOption:--

Q.44 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(5,4,33)

(7,3,55)

Ans

1. (9,4,98)

2. (14,5,260)

3. (11,7,135)

4. (8,12,78)

QuestionID:264330144422

Option1ID:264330565945

Option2ID:264330565946

Option3ID:264330565944

Option4ID:264330565943

Status:NotAnswered

ChosenOption:--

Q.45 Which letter cluster will replace the question mark (?) to complete the given series?

LDL,NHJ,PLH,RPF,?

Ans



1. TSD

2. STC

3. TTD

4. SSD

QuestionID:264330144570

Option1ID:264330566538

Option2ID:264330566535

Option3ID:264330566537

Option4ID:264330566536

Status:NotAnswered

ChosenOption:--

Q.46 Select the number from among the given options that can replace the question mark (?) in the following series.  
4, 80, 159, 244, 338, ?

- Ans
- 1.443
  - 2.434
  - 3.433
  - 4.444

QuestionID:26433078928  
Option1ID:264330309725  
Option2ID:264330309724  
Option3ID:264330309726  
Option4ID:264330309727  
Status:NotAnswered  
ChosenOption:--

Q.47 If '+' means '-', '-' means '×', '×' means '+', '+' means '+', then what will come in place of the question mark (?) in the following equation?  
 $11 - 42 \times 6 + 69 + 27 = ?$

- Ans
- 1.127
  - 2.131
  - 3.106
  - 4.119

QuestionID:264330126065  
Option1ID:264330493934  
Option2ID:264330493932  
Option3ID:264330493935  
Option4ID:264330493933  
Status:NotAnswered  
ChosenOption:--

Q.48 There are seven family members Q, R, S, T, U, V and W. Each are of different ages. R is elder than only three other members. S is younger than V but elder than W, who is the youngest among all. Q is elder than R but younger than U. U is not the eldest among all. How many family members are there between Q and W?

- Ans
- 1.2
  - 2.3
  - 3.1
  - 4.4

QuestionID:26433068889  
Option1ID:264330270071  
Option2ID:264330270069  
Option3ID:264330270068  
Option4ID:264330270070  
Status:NotAnswered  
ChosenOption:--



Q.49 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

ICMS, KDOT, ?, OFSV, QGUWA

- ns
- 1. MESU
  - 2. MEQU
  - 3. LEQU
  - 4. MERU

QuestionID:264330144521  
Option1ID:264330566341  
Option2ID:264330566340  
Option3ID:264330566339  
Option4ID:264330566342  
Status:NotAnswered  
ChosenOption:--

Q.50 Select the word-pair in which the two words are related in the same way as are the two words in the given pair.  
Yarn: Fabric

- Ans
- 1. Petrol:Car
  - 2. Lock:Key
  - 3. Brick: Wall
  - 4. Poem:Poet

QuestionID:26433082757  
Option1ID:264330324863  
Option2ID:264330324864  
Option3ID:264330324862  
Option4ID:264330324861  
Status:NotAnswered  
ChosenOption:--

Section:General Awareness

Q.1 According to the Centre for Monitoring Indian Economy (CMIE), in which state of India was the unemployment rate recorded as 34.5%, as of April 2022?

- Ans
- 1. Maharashtra
  - 2. Assam
  - 3. Andhra Pradesh
  - 4. Haryana

QuestionID:264330113298  
Option1ID:264330445278  
Option2ID:264330445280  
Option3ID:264330445279  
Option4ID:264330445277  
Status:Answered  
ChosenOption:4

Q.2 In January 2023, who among the following has been appointed as the new Vice-Chief of the Indian Air Force? @Truly\_Engineers

Ans  1. Nagesh Kapoor

2. Sandeep Singh

3. A P Singh

4. Rakesh Kumar Singh Bhadauria

QuestionID:264330137295

Option1ID:264330537810

Option2ID:264330537808

Option3ID:264330537807

Option4ID:264330537809

Status: Answered

ChosenOption:2

Q.3 Which of the statements is NOT correct regarding the earthquake waves? Ans

1. P-waves are called the primary waves.

2. S-waves is that they can travel only through solid materials.

3. P-waves move faster and are the first to arrive at the surface.

4. P-wave can travel through only solid and liquid mediums but not gaseous mediums.

QuestionID:26433055827

Option1ID:264330218294

Option2ID:264330218295

Option3ID:264330218293

Option4ID:264330218292

Status: Not Answered

ChosenOption:--

Q.4 Most of the crops being cereals, required approximately \_\_\_\_\_ of dietary water footprint.

Ans  1. 50%

2. 83%

3. 28%

4. 74%

QuestionID:264330144389

Option1ID:264330565812

Option2ID:264330565814

Option3ID:264330565811

Option4ID:264330565813

Status: Answered

ChosenOption:2

Q.5WhowastheleaderofKairaSatyagrahathatwaslaunchedagainstthegovernment?Ans

✓1.MahatmaGandhi

✗2.BabaRamchandra

✗3. NGRanga

✗4. SardarPatel

QuestionID:264330112167

Option1ID:264330440754

Option2ID:264330440756

Option3ID:264330440755

Option4ID:264330440753

Status:NotAnswered

ChosenOption:--

Q.6कसी की लोकसी दी शकीसकलघरीलीउपीद(GDP)कीउतरतरकीोउसदी शकीलीोगकअपीकीतअधक खुशहाल क सचकाक कप ममानन कालोभनदया जा सकता हा ल कन कु छ कारण ऐस होत ह  
जनकवजहस यहसह नहहोसकताह।ननलखतमसके न-साइनकारणमसाकनहह?

Ans ✗1. गर-म कआदान-दान (Non-monetaryexchanges)

✗2. बाकारक(Externalities)

✓3. राजन तकजागकताकातर (Levelofpolitical awareness)

✗4. ज ड प कावतरण (DistributionofGDP)

QuestionID:26433082234

Option1ID:264330322770

Option2ID:264330322771

Option3ID:264330322772

Option4ID:264330322769

Status:Answered

ChosenOption:1

Q.7Which team won the 2022 Durand

Cup?Ans



1.BengaluruFootballClub

✗2. ATKMohunBagan

✗3. GoaFC

✗4. MumbaiCityFC

QuestionID:264330119250

Option1ID:264330467288

Option2ID:264330467289

Option3ID:264330467290

Option4ID:264330467287

Status:Answered

ChosenOption:2

Q.8 Identify the chemical formula for

ethyne. Ans  1.  $C_2H_2$

2.  $C_2H_6$

3.  $C_2H_5OH$

4.  $CH_4$

QuestionID:264330134861

Option1ID:264330528380

Option2ID:264330528382

Option3ID:264330528381

Option4ID:264330528379

Status:Answered

ChosenOption:1

Q.9 All England Championships is associated with \_\_\_\_\_ .

Ans

1. Badminton

2. Cricket

3. Tennis

4. Table tennis

QuestionID:264330110337

Option1ID:264330433626

Option2ID:264330433625

Option3ID:264330433627

Option4ID:264330433628

Status:Answered

ChosenOption:3

Q.10 As per Finance Bill 2023, eligible start-ups will be able to set off and carry forward losses incurred during their first ten years of incorporation, even if there has been a change in shareholding, if all shareholders continued during the relevant period. The previous time limit of seven years has been increased to \_\_\_\_\_ .

Ans  1. 12 years

2. 13 years

3. 15 years

4. 10 years

QuestionID:264330156941

Option1ID:264330615140

Option2ID:264330615141

Option3ID:264330615142

Option4ID:264330615139

Status:Not Answered

ChosenOption:--

Q.11 Which of the following metals is present in nature in its free state? Ans

1. Magnesium

2. Platinum

3. Zinc

4. Calcium

QuestionID:264330131683

Option1ID:264330515832

Option2ID:264330515831

Option3ID:264330515834

Option4ID:264330515833

Status:Answered

ChosenOption:4

Q.12 When did 5G services begin to be offered in India? Ans

1. 19 September 2021

2. 1 October 2022

3. 28 September 2022

4. 10 August 2021

QuestionID:264330130582

Option1ID:264330511439

Option2ID:264330511442

Option3ID:264330511441

Option4ID:264330511440

Status:Not Answered

ChosenOption:--

Q.13 Which of the following is a common condition that develops when a sticky substance called plaque builds up inside your arteries, causing them to harden and narrow?

Ans  1. Atherosclerosis

2. Multiple sclerosis

3. Hyperaldosteronism

4. Hypervitaminosis

QuestionID:264330130989

Option1ID:264330513068

Option2ID:264330513069

Option3ID:264330513070

Option4ID:264330513067

Status:Answered

ChosenOption:3

Q.14 Chilika Lake is a brackish water lagoon, spread over which districts of Odisha state? Ans

- ✓ 1. Puri, Khurda and Ganjam
- ✗ 2. Angul, Cuttak and Puri
- ✗ 3. Puri, Cuttack and Ganjam
- ✗ 4. Puri, Bhubaneswar and Khurda

QuestionID:26433054948  
Option1ID:264330214779  
Option2ID:264330214776  
Option3ID:264330214777  
Option4ID:264330214778  
Status:NotAnswered  
ChosenOption:--

Q.15 Martyrdom of revolutionary \_\_\_\_\_ took place on 27 February, 1931.

- Ans
- ✗ 1. Bhagat Singh
  - ✗ 2. Sachindranath Sanyal
  - ✓ 3. Chandrashekhar Azad
  - ✗ 4. Batukeshwar Dutt

QuestionID:264330111412  
Option1ID:264330437735  
Option2ID:264330437733  
Option3ID:264330437734  
Option4ID:264330437736  
Status:Answered  
ChosenOption:3

Q.16 सबसे सही शीसकपीवी रीजतीती यथी, जह 1192 मएक अफगीन शीसकसीुतीन महीु  
मदगीरीन हरायाथा।

- Ans
- ✗ 1. रकट
  - ✓ 2. चाहमान/च हान
  - ✗ 3. तहार
  - ✗ 4. पाल

QuestionID:26433089868  
Option1ID:264330352952  
Option2ID:264330352950  
Option3ID:264330352951  
Option4ID:264330352949  
Status:Answered  
ChosenOption:2

Q.17 Which of the following statements is INCORRECT about migration in India? Ans ✘

1. Migration may be rural to urban.

✘ 2. Migration has pull and push factors.

✔ 3. Migration does not depend on social factors.

✘ 4. It may be urban to rural areas.

QuestionID:264330144418

Option1ID:264330565927

Option2ID:264330565929

Option3ID:264330565930

Option4ID:264330565928

Status:Answered

ChosenOption:4

Q.18 Darshana Jhaveri and Devjani Chaliha are best known for their contribution to which of the given styles of Indian dance?

Ans ✘ 1. Kathak

✔ 2. Manipuri

✘ 3. Kuchipudi

✘ 4. Bharatanatyam

QuestionID:264330130514

Option1ID:264330511169

Option2ID:264330511168

Option3ID:264330511167

Option4ID:264330511170

Status:NotAnswered

ChosenOption:--

Q.19 ननलखतमसक न-सामलकतमस च बनहरी Ans ✔

1. आमअसीगतकभीवनतीकीोबढीवीदीनी

✘ 2. समी वरीसतकीोमहवदीनी औरउसीपररतकरनी

✘ 3. तीकतकपयावरणकासाणकरना औरउसमसुधारकरना

✘ 4. सीवक्कसीपकसीरुतीकरनी, औरहसीसीररहनी

QuestionID:264330112766

Option1ID:264330443152

Option2ID:264330443149

Option3ID:264330443151

Option4ID:264330443150

Status:Answered

ChosenOption:1

Q.20 Which cybersecurity measure involves verifying the identity of users before granting access to a system or network?

- Ans
- 1. Firewall configuration
  - 2. Regular software updates
  - 3. Multi-factor authentication
  - 4. Network encryption

QuestionID:264330168584  
Option1ID:264330661147  
Option2ID:264330661148  
Option3ID:264330661149  
Option4ID:264330661150  
Status:Answered  
ChosenOption:1

Q.21 Name the Government scheme aimed to benefit women entrepreneurs from backward backgrounds.

- Ans
- 1. Beti Bachao Beti Padhao
  - 2. Mahila Samridhi Yojana
  - 3. Pradhan Mantri Matru Vandana Yojana
  - 4. Ujjawala

QuestionID:264330110667  
Option1ID:264330434945  
Option2ID:264330434947  
Option3ID:264330434946  
Option4ID:264330434948  
Status:Answered  
ChosenOption:2

Q.22 Which of the following pairs of coast and the state in which it is located is INCORRECT? Ans

- 1. Konkan coast - Maharashtra
- 2. Gaon coast - Karnataka
- 3. Malabar coast - Tamil Nadu
- 4. Kathiawar coast - Gujarat

QuestionID:26433055657  
Option1ID:264330217613  
Option2ID:264330217614  
Option3ID:264330217615  
Option4ID:264330217612  
Status:Answered  
ChosenOption:2



Q.23 ननलखतमसवीकी न-सीवतीुमीुीT(commoditymoney)नहही

- Ans
- 1. ताबा
  - 2. चीबी
  - 3. बतन
  - 4. सोना

QuestionID: 264330144410  
Option1ID: 264330565898  
Option2ID: 264330565897  
Option3ID: 264330565895  
Option4ID: 264330565896  
Status: Answered  
ChosenOption: 3

Q.24 WhoclassifiedIndiansocietyintosevenclasses?

- Ans
- 1. Strabo
  - 2. Megasthenes
  - 3. Pliny
  - 4. Arian

QuestionID: 264330112132  
Option1ID: 264330440614  
Option2ID: 264330440615  
Option3ID: 264330440613  
Option4ID: 264330440616  
Status: NotAnswered  
ChosenOption: --

Q.25 WhatistherespectivepercentageofCO<sub>2</sub>,N<sub>2</sub>,andO<sub>2</sub>intheatmosphere?

- Ans
- 1. CO<sub>2</sub> = 0.08%, N<sub>2</sub> = 70.08%, O<sub>2</sub> = 29.95%
  - 2. CO<sub>2</sub> = 0.04%, N<sub>2</sub> = 78.08%, O<sub>2</sub> = 20.95%
  - 3. CO<sub>2</sub> = 0.03%, N<sub>2</sub> = 68.08%, O<sub>2</sub> = 30.95%
  - 4. CO<sub>2</sub> = 0.04%, N<sub>2</sub> = 20.95%, O<sub>2</sub> = 78.08%

QuestionID: 264330109932  
Option1ID: 264330432006  
Option2ID: 264330432005  
Option3ID: 264330432008  
Option4ID: 264330432007  
Status: Answered  
ChosenOption: 2

Q.26 The Constitution (87<sup>th</sup> Amendment) Act, 2003 provided for the delimitation of the constituencies on the basis of the census of \_\_\_\_\_.

- Ans
- 1. 1991
  - 2. 1981
  - 3. 2001
  - 4. 1971

QuestionID:264330119646  
Option1ID:264330468861  
Option2ID:264330468860  
Option3ID:264330468862  
Option4ID:264330468859  
Status:Answered  
ChosenOption:3

Q.27 Which of the following are NOT antimicrobial drugs? Ans

- 1. Antacids
- 2. Disinfectants
- 3. Antibiotics
- 4. Antiseptics

QuestionID:264330113345  
Option1ID:264330445465  
Option2ID:264330445468  
Option3ID:264330445466  
Option4ID:264330445467  
Status:NotAnswered  
ChosenOption:--

Q.28 Which of the following protocols is used by email clients to send email to mail servers? Ans

- 1. SMTP
- 2. TCP/IP
- 3. IMAP
- 4. POP3

QuestionID:264330168572  
Option1ID:264330661100  
Option2ID:264330661102  
Option3ID:264330661101  
Option4ID:264330661099  
Status:Answered  
ChosenOption:1

Q.29 Beta-carotene, lycopene, lutein and selenium are examples of:

- Ans
- 1. anti-coagulants
  - 2. immunosuppressants
  - 3. antioxidants
  - 4. sources of Vitamin C

QuestionID:264330109938  
Option1ID:264330432031  
Option2ID:264330432032  
Option3ID:264330432030  
Option4ID:264330432029  
Status:NotAnswered  
ChosenOption:--

Q.30 रीोगमई

लनहरकसर रीी यजलमीगकीहसीहरीAns

- 1. रा यजलमाग3
- 2. रा यजलमाग1
- 3. रा यजलमाग2
- 4. रा यजलमाग4

QuestionID:264330113276  
Option1ID:264330445191  
Option2ID:264330445189  
Option3ID:264330445190  
Option4ID:264330445192  
Status:NotAnswered

ChosenOption:--

Q.31 Which of the following classical dancers won the Padma Shri award in 2022 for the dance form of Kuchipudi?

- Ans
- 1. Gaddam Padmaja Reddy
  - 2. Hema Malini
  - 3. Birju Maharaj
  - 4. Sujata Mohapatra

QuestionID:26433064808  
Option1ID:264330253825  
Option2ID:264330253827  
Option3ID:264330253824  
Option4ID:264330253826  
Status:Answered

ChosenOption:1

Q.32 What is Petrology?

- Ans
- 1. Science of metals
  - 2. Science of gases
  - 3. Science of rocks
  - 4. Science of minerals

QuestionID:264330113358  
Option1ID:264330445519  
Option2ID:264330445518  
Option3ID:264330445520  
Option4ID:264330445517  
Status:NotAnswered  
ChosenOption:--

Q.33 According to the Census of India 2011, what was the percentage of Sikh communities in the total population in India?

- Ans
- 1. 0.4%
  - 2. 1.7%
  - 3. 79.8%
  - 4. 14.2%

QuestionID:264330157087  
Option1ID:264330615721  
Option2ID:264330615722  
Option3ID:264330615720  
Option4ID:264330615719  
Status:Answered  
ChosenOption:2

Q.34 नल खत मस क न सा नाक बद होन (nasal congestion) क लएज म दारह? Ans

- 1. हटामिन (Histamine)
- 2. उपशामक (Tranquilizers)
- 3. ददनवारक (Analgesics)
- 4. टासाइलिन (Tetracycline)

QuestionID:264330113344  
Option1ID:264330445461  
Option2ID:264330445462  
Option3ID:264330445463  
Option4ID:264330445464  
Status:Answered  
ChosenOption:1

Q.35 Which element was proposed by Glenn T Seaborg in 1955 through the bombardment of a minute amount of a rare, radioactive isotope of Einsteinium with  $\alpha$ -particles in a 60-inch cyclotron?

- Ans
- 1. Neptunium
  - 2. Mendelevium
  - 3. Lawrencium
  - 4. Nobelium

QuestionID:264330141688  
Option1ID:264330555073  
Option2ID:264330555072  
Option3ID:264330555074  
Option4ID:264330555071  
Status:NotAnswered  
ChosenOption:--

Q.36 Which of the following classical dance styles is inscribed on the Gopuram of Chidambaram temple?

- Ans
- 1. Kathak
  - 2. Bharatnatyam
  - 3. Kuchipudi
  - 4. Mohiniyattam

QuestionID:26433072658  
Option1ID:264330284892  
Option2ID:264330284894  
Option3ID:264330284893  
Option4ID:264330284895  
Status:NotAnswered  
ChosenOption:--

Q.37 How much of global trade is carried out through this sea route? Ans

- 1. 60%
- 2. 80%
- 3. 90%
- 4. 70%

QuestionID:26433086626  
Option1ID:264330340148  
Option2ID:264330340146  
Option3ID:264330340145  
Option4ID:264330340147  
Status:Answered  
ChosenOption:3

Q.38 As per the Budget 2022 announcement, a \_\_\_\_\_ income tax will be applied on earnings from virtual digital assets like cryptocurrencies.

- Ans  1. 40%
2. 30%
3. 25%
4. 15%

QuestionID:264330156926  
Option1ID:264330615082  
Option2ID:264330615079  
Option3ID:264330615080  
Option4ID:264330615081  
Status:NotAnswered  
ChosenOption:--

Q.39 Article \_\_\_\_\_ of the Constitution of India states that the Chief Ministers shall be appointed by the Governor.

- Ans  1. 163
2. 165
3. 164
4. 161

QuestionID:264330130493  
Option1ID:264330511084  
Option2ID:264330511086  
Option3ID:264330511085  
Option4ID:264330511083  
Status:NotAnswered  
ChosenOption:--

Q.40 छठी

खीानकसघरीानवीकीसीीापकमसवीएकह्

- ns  1. आगराघराना
2. लखनऊघराना
3. मवात घराना
4. भड बाजारघराना

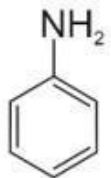
QuestionID:26433074866  
Option1ID:264330293552  
Option2ID:264330293553  
Option3ID:264330293554  
Option4ID:264330293555  
Status:Answered  
ChosenOption:2

Q.41 The 11<sup>th</sup> fundamental duty is related to \_\_\_\_\_ .

- Ans
- 1.environment
  - 2.culture
  - 3.health
  - 4.education

QuestionID: 264330118531  
Option1ID: 264330465526  
Option2ID: 264330465527  
Option3ID: 264330465525  
Option4ID: 264330465528  
Status: Answered  
ChosenOption: 4

Q.42 What is the name of the organic compound in the given figure?



- Ans
- 1.Benzene
  - 2.Tropone
  - 3.Aniline
  - 4.Cyclohexene

QuestionID: 264330131687  
Option1ID: 264330515850  
Option2ID: 264330515848  
Option3ID: 264330515849  
Option4ID: 264330515847  
Status: Answered  
ChosenOption: 1

Q.43 When was the Indian Association founded?

- Ans
- 1.1876
  - 2.1875
  - 3.1874
  - 4.1871

QuestionID: 264330109047  
Option1ID: 264330428468  
Option2ID: 264330428467  
Option3ID: 264330428466  
Option4ID: 264330428465  
Status: NotAnswered  
ChosenOption: --

Q.44 In March 2023, which of the following organisations launched Mission 'HarPayment Digital'?

Ans  1. National Stock Exchange of India Ltd.

2. Calcutta Stock Exchange Ltd.

3. Reserve Bank of India

4. State Bank of India

QuestionID:264330158455

Option1ID:264330621181

Option2ID:264330621182

Option3ID:264330621180

Option4ID:264330621179

Status:Answered

ChosenOption:4

Q.45 The total number of persons awarded under Jeevan Raksha Padak Series of Awards-2022, which was announced by the President of India on 25th January 2023, stood at \_\_\_\_\_.

Ans  1.43

2.33

3.63

4.53

QuestionID:264330132573

Option1ID:264330519388

Option2ID:264330519387

Option3ID:264330519390

Option4ID:264330519389

Status:Not Answered

ChosenOption:--

Q.46 ननलखतमसीकी न-सीएकीटकअलयी

डोइपीटीडइमधीरक(वी टनर)ह? Ans  1.सकर

न(Saccharin) 2. एलटम(Alitame)

3. सुलोज़(Sucralose)

4. एससफे मक(AcesulfameK)

QuestionID:264330120050

Option1ID:264330470455

Option2ID:264330470457

Option3ID:264330470456

Option4ID:264330470458

Status:Answered

ChosenOption:3



Q.47 Which of the following instruments did Sheik Chinna Moulana, a famous instrumentalist from India, play?

Ans

- 1. Mridangam
- 2. Ghatam
- 3. Violin
- 4. Nadhaswaram

QuestionID:2643306686  
Option1ID:264330261270  
Option2ID:264330261268  
Option3ID:264330261271  
Option4ID:264330261269  
Status:NotAnswered

ChosenOption:--

Q.48 Which of the following Articles of the Constitution of India mentions about the abolition of untouchability?

Ans

- 1. Article 17
- 2. Article 16
- 3. Article 21
- 4. Article 28

QuestionID:26433086815  
Option1ID:264330340903  
Option2ID:264330340904  
Option3ID:264330340902  
Option4ID:264330340901

Status:Answered

ChosenOption:1

Q.49 As on 1st February 2023, who among the following is the Chairperson of the National Disaster Management Authority (NDMA)?

Ans

- 1. Narendra Modi
- 2. Droupadi Murmu
- 3. Rajnath Singh
- 4. Amit Shah

QuestionID:264330132616  
Option1ID:264330519560  
Option2ID:264330519559  
Option3ID:264330519561  
Option4ID:264330519562  
Status:Answered

ChosenOption:4



Section:GeneralEngineeringMechanical

Q.1 Which of the following is the correct relation for specific speed of turbine?

- Ans
- 1. Specific speed is directly proportional to square of the head under which the turbine is working
  - 2. Specific speed is directly proportional to square root of shaft power
  - 3. Specific speed is directly proportional to shaft power
  - 4. Specific speed is directly proportional to head under which the turbine is working

QuestionID:264330159159

Option1ID:264330623998

Option2ID:264330623996

Option3ID:264330623995

Option4ID:264330623997

Status:Answered

ChosenOption:2

Q.2 The friction experienced by the body when the body tends to move is known as:

- Ans
- 1. sliding friction
  - 2. rolling friction
  - 3. static friction
  - 4. dynamic friction

QuestionID:26433096673

Option1ID:264330379429

Option2ID:264330379430

Option3ID:264330379432

Option4ID:264330379431

Status:Answered

ChosenOption:4

Q.3 There are two horizontal pipes in which water is flowing. If we have to find the pressure difference between these two horizontal pipes using an inverted manometer, and two manometric fluids with specific gravities of 13.5 and 0.9 are available, then which manometric fluid will be appropriate?

- Ans
- 1. Cannot be predicted
  - 2. Fluid with the specific gravity of 13.5
  - 3. Both the fluids can be used
  - 4. Fluid with the specific gravity of 0.9

QuestionID:264330100873

Option1ID:264330396040

Option2ID:264330396038

Option3ID:264330396039

Option4ID:264330396037

Status:Answered

ChosenOption:2

Q.4 The speed ratio of a compound gear train is defined as \_\_\_\_\_.

- Ans
- 1.  $\frac{\text{Speed of last follower}}{\text{Speed of first driver}}$
  - 2.  $\frac{\text{Product of number of teeth on driven shafts}}{\text{Product of number of teeth on driver shafts}}$
  - 3.  $\frac{\text{Product of speed of followers}}{\text{Product of speed of drivers}}$
  - 4.  $\frac{\text{Product of number of teeth on driver shafts}}{\text{Product of number of teeth on driven shafts}}$

QuestionID:26433099837

Option1ID:264330391946

Option2ID:264330391947

Option3ID:264330391948

Option4ID:264330391945

Status:Answered

ChosenOption:2

Q.5 For a two-stage reciprocating air compressor, the section pressure is 1.6 bar and the delivery pressure is 40 bar. What is the value of the ideal intercooler pressure (in bar)?

- Ans
- 1.8
  - 2.9
  - 3.4.56
  - 4.20.8

QuestionID:264330158702

Option1ID:264330622168

Option2ID:264330622169

Option3ID:264330622167

Option4ID:264330622170

Status:Answered

ChosenOption:1

Q.6 The expansion process in a vapour compression refrigeration cycle is a/an \_\_\_\_\_.

- Ans
- 1. constant volume process
  - 2. isentropic process
  - 3. reversible isothermal process
  - 4. isenthalpic process

QuestionID:264330157260

Option1ID:264330616406

Option2ID:264330616403

Option3ID:264330616405

Option4ID:264330616404

Status:Answered

ChosenOption:4

Q.7 A cyclic heat engine of thermal efficiency 80% does 60 kJ of work per cycle. The heat rejected per cycle will be equal to \_\_\_\_\_.

- Ans
- 1. 75 kJ
  - 2. 20 kJ
  - 3. 15 kJ
  - 4. 48 kJ

QuestionID:264330157533

Option1ID:264330617491

Option2ID:264330617494

Option3ID:264330617492

Option4ID:264330617493

Status:Answered

ChosenOption:3

Q.8 The highest temperature during the cycle, in a vapour compression refrigeration system, occurs after:

- Ans
- 1. compression
  - 2. condensation
  - 3. evaporation
  - 4. expansion

QuestionID:264330157199

Option1ID:264330616159

Option2ID:264330616160

Option3ID:264330616162

Option4ID:264330616161

Status:Answered

ChosenOption:1

Q.9 The speed ratio for an impulse turbine can be taken as [Join @Truly\\_Engineer on Telegram](#)

- Ans  1.0.6  
 2.0.75  
 3.0.45  
 4.0.3

QuestionID:26433099831  
Option1ID:264330391921  
Option2ID:264330391922  
Option3ID:264330391923  
Option4ID:264330391924  
Status:Answered  
ChosenOption:3

Q.10 For the same compression ratio, which of the following processes will require the least compression work?

- Ans   
 1. Isothermal process  
 2. Adiabatic process  
 3. Isochoric process  
4. Polytropic process

QuestionID:26433096771  
Option1ID:264330379824  
Option2ID:264330379822  
Option3ID:264330379821  
Option4ID:264330379823  
Status:Answered  
ChosenOption:1

Q.11 Which of the following statements is true regarding vapour-compression refrigeration system (VCRS)?

- Ans   
1. Power consumption of VCRS with air-cooled condenser is more as compared to that of VCRS with water-cooled condenser.  
 2. VCRS with both water-cooled and air-cooled condenser will require same power for same refrigeration effect.  
 3. Power consumption of VCRS with air-cooled condenser is less as compared to that of VCRS with water-cooled condenser.  
 4. Power consumption of VCRS with air-cooled condenser may be lesser or greater than that of VCRS with water-cooled condenser.

QuestionID:26433096806  
Option1ID:264330379961  
Option2ID:264330379963  
Option3ID:264330379962  
Option4ID:264330379964  
Status:Answered  
ChosenOption:3

Q.12 The value of enthalpy of vaporisation approaches zero on the saturation curve of water on a temperature-entropy diagram:

- Ans
- 1. above critical point
  - 2. below critical point
  - 3. never approaches zero
  - 4. at critical point

QuestionID:26433096537  
Option1ID:264330378887  
Option2ID:264330378886  
Option3ID:264330378888  
Option4ID:264330378885  
Status:Answered  
ChosenOption:4

Q.13 In air-conditioning of aeroplanes, using air as a refrigerant, the cycle used is:

- Ans
- 1. reversed Otto cycle
  - 2. reversed Joule cycle
  - 3. reversed Brayton cycle
  - 4. reversed Carnot cycle

QuestionID:264330157195  
Option1ID:264330616146  
Option2ID:264330616144  
Option3ID:264330616145  
Option4ID:264330616143  
Status:Answered  
ChosenOption:3

Q.14 According to the American Society of Mechanical Engineers (ASME), the evaporation of 15.63 kg of water at 100°C per hour from 100°C feed water in a steam boiler is known as \_\_\_\_\_.

- Ans
- 1. boiler efficiency
  - 2. equivalent evaporation
  - 3. boiler horsepower
  - 4. actual evaporation

QuestionID:264330159960  
Option1ID:264330627189  
Option2ID:264330627188  
Option3ID:264330627190  
Option4ID:264330627187  
Status:Answered  
ChosenOption:3

Q.15 If the specific weight of a fluid is  $19620 \text{ N/m}^3$ , then what will be its specific volume in  $\text{m}^3/\text{kg}$ ? (Take  $g=9.81 \text{ m/sec}^2$ )

- Ans
- 1.  $1.5 \times 10^{-5}$
  - 2.  $2.0.5 \times 10^{-3}$
  - 3.  $3.0.5 \times 10^{-5}$
  - 4.  $4.5 \times 10^{-3}$

QuestionID: 26433096274  
Option1ID: 264330377846  
Option2ID: 264330377847  
Option3ID: 264330377848  
Option4ID: 264330377845  
Status: Answered  
ChosenOption: 2

Q.16 The term  $\rho V^2/2$  used in Bernoulli's theorem is basically:

- Ans
- 1. stagnation pressure
  - 2. dynamic pressure
  - 3. static pressure
  - 4. hydrostatic pressure

QuestionID: 264330159214  
Option1ID: 264330624218  
Option2ID: 264330624216  
Option3ID: 264330624215  
Option4ID: 264330624217  
Status: Answered  
ChosenOption: 2

Q.17 Match the following.

Halocarbon Refrigerants	Examples
1. Halons	a. R-32
2. CFCs	b. R-22
3. HFCs	c. R-11
4. HCFCs	d. R-10

- Ans
- 1. 1-d; 2-c; 3-a; 4-b
  - 2. 1-d; 2-a; 3-c; 4-b
  - 3. 1-d; 2-c; 3-b; 4-a
  - 4. 1-a; 2-c; 3-d; 4-b

QuestionID: 26433099503  
Option1ID: 264330390625  
Option2ID: 264330390626  
Option3ID: 264330390627  
Option4ID: 264330390628  
Status: Answered  
ChosenOption: 1

Q.18 Generation of steam in a boiler is an example of an \_\_\_\_\_.

- Ans
- 1. isothermal process
  - 2. adiabatic process
  - 3. isochoric process
  - 4. isobaric process

QuestionID:26433095603

Option1ID:264330375193

Option2ID:264330375194

Option3ID:264330375195

Option4ID:264330375196

Status:Answered

ChosenOption:4

Q.19 A Carnot cycle operates between two temperatures  $T_1$  and  $T_2$ . The efficiency of the cycle is given by  $\eta = (T_1 - T_2)/T_1$ . Which of the following statements is correct?

- Ans
- 1. The efficiency of the Carnot cycle is always less than that of any other heat engine operating between the same two temperatures.
  - 2. The efficiency of the Carnot cycle is always equal to that of any other heat engine operating between the same two temperatures.
  - 3. The efficiency of the Carnot cycle is always greater than that of any other heat engine operating between the same two temperatures.
  - 4. The efficiency of the Carnot cycle depends on the working substance used.

QuestionID:264330157928

Option1ID:264330619073

Option2ID:264330619072

Option3ID:264330619071

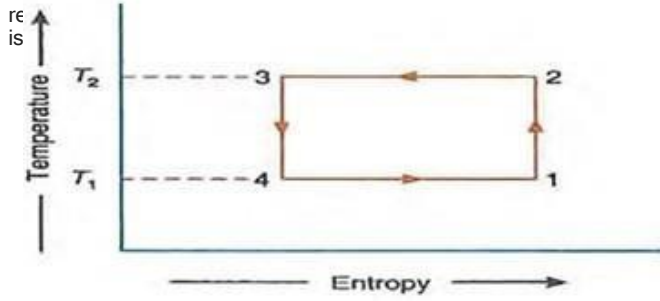
Option4ID:264330619074

Status:Answered

ChosenOption:3



Q.20 The efficiency of a Carnot cycle operating on the system



- Ans
- 1.5.16
  - 2.4.82
  - 3.3.45
  - 4.2.75

QuestionID:264330160034  
Option1ID:264330627483  
Option2ID:264330627484  
Option3ID:264330627485  
Option4ID:264330627486

Status:Answered  
ChosenOption:1

Q.21 The correct relation between the modulus of elasticity (E) and modulus of rigidity (G) is: Given,  $\mu$  = Poisson's ratio.

- Ans
- 1.  $G=2E(1+\mu)$
  - 2.  $E=4G(1+\mu)$
  - 3.  $E=2G(1+\mu)$
  - 4.  $G=4E(1+\mu)$

QuestionID:26433099946  
Option1ID:264330392359  
Option2ID:264330392358  
Option3ID:264330392360  
Option4ID:264330392357

Status:Answered  
ChosenOption:3

Q.22 An air standard diesel cycle working with a compression ratio of 13 and cutoff takes places at 5% of the stroke volume. The value of cutoff ratio will be

- Ans
- 1.2.3
  - 2.1.9
  - 3.1.3
  - 4.1.6

QuestionID:264330100536  
Option1ID:264330394691  
Option2ID:264330394690  
Option3ID:264330394692  
Option4ID:264330394689  
Status:Answered  
ChosenOption:4

Q.23 If a turbine is working under different heads, the behaviour of the turbine can be easily determined from the values of \_\_\_\_\_.

- Ans
- 1. blade angles
  - 2. unit quantities
  - 3. number of vanes
  - 4. size of runner

QuestionID:264330159160  
Option1ID:264330623999  
Option2ID:264330624002  
Option3ID:264330624001  
Option4ID:264330624000  
Status:Answered  
ChosenOption:2

Q.24 In the shaping process, the cutting tool moves \_\_\_\_\_.

- Ans
- 1. in a circular motion
  - 2. in a parabolic motion
  - 3. in a straight line
  - 4. in an elliptical motion

QuestionID:264330157941  
Option1ID:264330619125  
Option2ID:264330619123  
Option3ID:264330619126  
Option4ID:264330619124  
Status:Answered  
ChosenOption:3

Q.25 The cyclic integral of  $Q/T$  for a reversible cycle is equal to zero. This statement is known as

Ans



- 1. Clausius theorem
- 2. Carnot theorem
- 3. Rankine theorem
- 4. the principle of Carathéodory

QuestionID:264330157560  
Option1ID:264330617600  
Option2ID:264330617599  
Option3ID:264330617601  
Option4ID:264330617602  
Status:Answered

ChosenOption:1

Q.26 Select the correct statement of Lami's theorem.

Ans

- 1. If two forces are in equilibrium, then each force is directly proportional to the sine of the angle between them.
- 2. If three forces are not in equilibrium, then each force is inversely proportional to the sine of the angle between the other two forces.
- 3. If three forces acting on a body are said to be in equilibrium, then each force is directly dependent on the sine of the angle between the other two forces.
- 4. If three forces are non-coplanar, then each force is directly dependent on the sine of the angle between the other two forces.

QuestionID:264330162519  
Option1ID:264330637403  
Option2ID:264330637404  
Option3ID:264330637406  
Option4ID:264330637405

Status:Answered

ChosenOption:3

Q.27 Which of the following milling operations is used to produce a flat surface parallel to the axis of rotation of the cutter?

Ans



- 1. Endmilling
- 2. Facemilling
- 3. Plainmilling
- 4. Profilemilling

QuestionID:264330157946  
Option1ID:264330619144  
Option2ID:264330619143  
Option3ID:264330619145  
Option4ID:264330619146

Status:Answered

ChosenOption:3

Q.28 The pressure responsive element in the Bourdon tube pressure gauge is made of \_\_\_\_\_.

- Ans  1. bronze  
 2. Inconel  
 3. cast iron  
 4. aluminium

QuestionID:264330100870  
Option1ID:264330396027  
Option2ID:264330396028  
Option3ID:264330396025  
Option4ID:264330396026  
Status:Answered  
ChosenOption:2

Q.29 Which impellers are more likely to be clogged if stringy material or solids are pumped? Ans

1. Closed impeller  
 2. Cannot be predicted  
 3. Semi-open impeller  
 4. Open impeller

QuestionID:26433096735  
Option1ID:264330379679  
Option2ID:264330379680  
Option3ID:264330379677  
Option4ID:264330379678  
Status:Answered  
ChosenOption:4

Q.30 What is the function of the transfer port inside the engine? Ans

1. It is the port through which the engine gets the fuel.  
 2. It is the port through which scavenging of the gas takes place.  
 3. It is used to transfer unburnt fuel to the exhaust port.  
 4. It is used to move charge from the crankcase to the cylinder head portion.

QuestionID:264330158736  
Option1ID:264330622303  
Option2ID:264330622304  
Option3ID:264330622306  
Option4ID:264330622305  
Status:Answered  
ChosenOption:4

Q.31 The point at which all the three phases - solid, liquid, and vapour co-exist in equilibrium in a P-T diagram is known as \_\_\_\_\_.

Ans



✓ 1. melting point

✗ 2. triple point

✗ 3. critical point

4. boiling point

QuestionID:26433095597  
Option1ID:264330375172  
Option2ID:264330375170  
Option3ID:264330375169  
Option4ID:264330375171  
Status:Answered

ChosenOption:2

Q.32 Which of the following machining operations is NOT related to turning? Ans

✗ 1. External threading

✓ 2. Shaping

✗ 3. Boring

4. Facing

QuestionID:264330157547  
Option1ID:264330617549  
Option2ID:264330617550  
Option3ID:264330617548  
Option4ID:264330617547  
Status:Answered

ChosenOption:3

Q.33 For hydraulic turbines, the ratio of overall efficiency and mechanical efficiency is called \_\_\_\_\_.

Ans

✗ 1. frictional power

✓ 2. hydraulic efficiency

✗ 3. volumetric efficiency



4. cannot be predicted

QuestionID:26433096835  
Option1ID:264330380079  
Option2ID:264330380077  
Option3ID:264330380078  
Option4ID:264330380080  
Status:Answered

ChosenOption:2

Q.34 The Molten metal is used in \_\_\_\_\_ process





Ans 

-  1. Deep Drawing
-  2. Machining
-  3. Forging
- 4. Casting

QuestionID:264330100607  
Option1ID:264330394975  
Option2ID:264330394973  
Option3ID:264330394976  
Option4ID:264330394974  
Status:Answered

ChosenOption:4

Q.35 Choose the correct mathematical relation of absolute pressure. Ans

-  1.  $P_{abs} = P_{atm} + P_{gauge}$
-  2.  $P_{abs} = P_{atm} / P_{gauge}$
-  3.  $P_{abs} = P_{atm} - P_{gauge}$
-  4.  $P_{abs} = P_{atm} + 2P_{gauge}$

QuestionID:264330159146  
Option1ID:264330623943  
Option2ID:264330623945  
Option3ID:264330623944  
Option4ID:264330623946  
Status:Answered

ChosenOption:1

Q.36 The property of tool material to retain its hardness at elevated temperature is known as: Ans

-  1. Plasticity
-  2. Elasticity
-  3. Toughness
- 4. Red hardness

QuestionID:264330100618  
Option1ID:264330395020  
Option2ID:264330395019  
Option3ID:264330395018  
Option4ID:264330395017  
Status:Answered

ChosenOption:4

Q.37 A piezometer is connected to a point in a pipe to measure the pressure of water flowing through it. If the piezometer reads 0.4 m, what will be the gauge pressure at that point? Take atmospheric pressure = 101325 pascals and  $g = 10 \text{ m/s}^2$ .

- Ans
- 1. 97325 pascals
  - 2. 40 kilopascals
  - 3. 4000 pascals
  - 4. 105325 pascals

QuestionID:264330100875

Option1ID:264330396047

Option2ID:264330396048

Option3ID:264330396046

Option4ID:264330396045

Status: Answered

ChosenOption: 3

Q.38 The dimensional formula of specific gravity is given by:

- Ans
- 1.  $M^0 L^0 T^0$
  - 2.  $M^2 L^{-3} T^0$
  - 3.  $M^1 L^{-3} T^{-2}$
  - 4.  $M^1 L^{-3} T^0$

QuestionID:264330159132

Option1ID:264330623887

Option2ID:264330623890

Option3ID:264330623888

Option4ID:264330623889

Status: Answered

ChosenOption: 1

Q.39 What is the hydraulic radius for a circular pipe running full? Ans

- 1. 0.75d
- 2. 0.25d
- 3. d
- 4. 0.5d

QuestionID:26433099966

Option1ID:264330392439

Option2ID:264330392437

Option3ID:264330392440

Option4ID:264330392438

Status: Answered

ChosenOption: 4

Q.40 The mass of water evaporated per unit mass of fuel burnt is termed as \_\_\_\_\_ steam boilers.

- Ans
- 1. boiler efficiency of
  - 2. equivalent evaporation in
  - 3. actual evaporation in
  - 4. boiler performance of

QuestionID:264330159956  
Option1ID:264330627173  
Option2ID:264330627172  
Option3ID:264330627171  
Option4ID:264330627174  
Status:Answered  
ChosenOption:2

Q.41 Which of the following statements is true for a throttling process? Ans

- 1. It is an isothermal process.
- 2. It is an isentropic process.
- 3. It is a constant enthalpy process.
- 4. It is a reversible process.

QuestionID:26433096753  
Option1ID:264330379752  
Option2ID:264330379751  
Option3ID:264330379750  
Option4ID:264330379749  
Status:Answered  
ChosenOption:3

Q.42 A heat engine operates between a source at 600 K and a sink at 300 K. What is the maximum possible efficiency of the engine according to the Kelvin-Planck statement of the second law of thermodynamics?

- Ans
- 1. 33.3%
  - 2. 67%
  - 3. 25%
  - 4. 50%

QuestionID:264330157935  
Option1ID:264330619100  
Option2ID:264330619102  
Option3ID:264330619099  
Option4ID:264330619101  
Status:Answered  
ChosenOption:4



Q.43 The air pre-heater increases the temperature of \_\_\_\_\_ before it/they enter(s) the furnace.

- Ans
- 1. fuel
  - 2. flue gases
  - 3. feedwater
  - 4. air

QuestionID:264330159936  
Option1ID:264330627093  
Option2ID:264330627094  
Option3ID:264330627092  
Option4ID:264330627091  
Status:Answered  
ChosenOption:4

Q.44 The position of centre of pressure depends on which of the following? Ans

- 1. Velocity of liquid
- 2. Weight of the object immersed in liquid
- 3. Surface tension of fluid
- 4. Location of object from the free surface

QuestionID:264330159149  
Option1ID:264330623957  
Option2ID:264330623956  
Option3ID:264330623955  
Option4ID:264330623958  
Status:Answered  
ChosenOption:4

Q.45 Which of the following statements is INCORRECT?

- Ans
- 1. The value of dryness fraction is 1 for saturated steam condition.
  - 2. The value of dryness fraction is 0 for saturated water condition.
  - 3. The value of dryness fraction always lies between 0 and 1.
  - 4. The value of dryness fraction is greater than 1 for superheated steam condition.

QuestionID:26433099977  
Option1ID:264330392481  
Option2ID:264330392482  
Option3ID:264330392484  
Option4ID:264330392483  
Status:Answered  
ChosenOption:4

Q.46 A seamless pipe having a diameter of 600 mm and thickness of 9 mm, contains fluid under a pressure of 4 MPa, find the longitudinal stress developed in the pipe.

- Ans  ~~X~~
- 1.77.7 Mpa
- 2.88.8 Mpa
- 3.133.3 Mpa
- 4.66.6 Mpa

QuestionID:26433096685  
Option1ID:264330379479  
Option2ID:264330379480  
Option3ID:264330379478  
Option4ID:264330379477  
Status:Answered

ChosenOption:4

Q.47 In an ammonia vapour compression system, the pressure in the evaporator is 2 bar. Ammonia at exit is 0.85 dry and at entry its dryness fraction is 0.19. During compression, the work done per kg of ammonia is 150 kJ. The latent heat and specific volume at 2 bar are 1325 kJ/kg and 0.58 m<sup>3</sup>/kg, respectively. What will be its C.O.P?

- Ans  1.5.83
- 2.3.82
- 3.6.74
- 4.4.34

QuestionID:264330157200  
Option1ID:264330616166  
Option2ID:264330616163  
Option3ID:264330616165  
Option4ID:264330616164  
Status:Answered

ChosenOption:3

Q.48 Which thermodynamic property of steam does NOT change in a throttling calorimeter? Ans

1. Entropy
2. Enthalpy
3. Temperature
4. Pressure

QuestionID:26433095600  
Option1ID:264330375181  
Option2ID:264330375183  
Option3ID:264330375184  
Option4ID:264330375182  
Status:Answered

ChosenOption:2

Q.49 Choose the correct option related to lathe turning operation. Ans

- 1. Tool will rotate
- 2. Both tool and workpiece will not rotate
- 3. Both tool and workpiece will rotate
- 4. Workpiece will rotate

QuestionID:264330100629  
Option1ID:264330395061  
Option2ID:264330395064  
Option3ID:264330395063  
Option4ID:264330395062  
Status:Answered  
ChosenOption:4

Q.50 Francis turbine is an example of:

- Ans
- 1. radial flow turbine
  - 2. axial flow turbine
  - 3. mixed flow turbine
  - 4. impulse turbine

QuestionID:264330159167  
Option1ID:264330624028  
Option2ID:264330624029  
Option3ID:264330624030  
Option4ID:264330624027  
Status:Answered  
ChosenOption:1

Q.51 The behaviour of a material at different stages of loading is represented by a diagram called the \_\_\_\_\_ diagram.

- Ans
- 1. stress-strain
  - 2. hysteresis
  - 3. circumferential stress
  - 4. iron-carbon

QuestionID:26433099948  
Option1ID:264330392366  
Option2ID:264330392365  
Option3ID:264330392368  
Option4ID:264330392367  
Status:Answered  
ChosenOption:4

Q.52 Due to the refinement of grains, mechanical properties such as toughness, ductility, elongation and reduction in the area are improved in \_\_\_\_\_ process

- Ans
- 1. Joining
  - 2. Cold working
  - 3. Hot working
  - 4. Forming

QuestionID: 264330100610  
Option1ID: 264330394987  
Option2ID: 264330394986  
Option3ID: 264330394985  
Option4ID: 264330394988  
Status: Answered  
ChosenOption: 3

Q.53 The enthalpy of water is considered as 'zero' at \_\_\_\_\_.

- Ans
- 1. 37°C
  - 2. 100°C
  - 3. 0.01°C
  - 4. 4°C

QuestionID: 26433099980  
Option1ID: 264330392496  
Option2ID: 264330392495  
Option3ID: 264330392493  
Option4ID: 264330392494  
Status: Answered  
ChosenOption: 2

Q.54 Natural draft cooling towers are also known as \_\_\_\_\_.

- Ans
- 1. mechanical draft cooling towers
  - 2. artificial cooling towers
  - 3. atmospheric cooling towers
  - 4. automatic spray cooling towers

QuestionID: 26433096779  
Option1ID: 264330379855  
Option2ID: 264330379853  
Option3ID: 264330379854  
Option4ID: 264330379856  
Status: Answered  
ChosenOption: 3

Q.55 In an I.C. engine, when the primary circuit in the coil ignition system breaks, the voltage produced across the secondary terminal is in the range of \_\_\_\_\_.

- Ans
- 1. 80V to 120V
  - 2. 8000V to 12,000V
  - 3. 800V to 1200V
  - 4. 2000V to 5000V

QuestionID:264330158720  
Option1ID:264330622239  
Option2ID:264330622241  
Option3ID:264330622240  
Option4ID:264330622242  
Status:Answered  
ChosenOption:2

Q.56 If the mechanical efficiency and hydraulic efficiency of a turbine are 60% and 70%, respectively, then what will be the overall efficiency of the turbine?

- Ans
- 1. 70%
  - 2. 42%
  - 3. 60%
  - 4. 65%

QuestionID:264330159267  
Option1ID:264330624429  
Option2ID:264330624427  
Option3ID:264330624428  
Option4ID:264330624430  
Status:Answered  
ChosenOption:2

Q.57 A centrifugal pump is running at the speed of 1000 rpm against a head of 40m. If its speed is changed to 3000 rpm, then it will work against a head of:

- Ans
- 1. 120m
  - 2. 80m
  - 3. 360m
  - 4. 40m

QuestionID:264330159206  
Option1ID:264330624185  
Option2ID:264330624184  
Option3ID:264330624186  
Option4ID:264330624183  
Status:Answered  
ChosenOption:3

Q.58 Which of the following statements is correct for compressibility? Ans ✓

1. Compressibility is reciprocal of bulk modulus

✗ 2. Compressibility is square of bulk modulus

✗ 3. Compressibility is square root of bulk modulus

✗ 4. Compressibility is equal to bulk modulus

QuestionID:264330159128

Option1ID:264330623872

Option2ID:264330623871

Option3ID:264330623874

Option4ID:264330623873

Status: Answered

ChosenOption: 1

Q.59 Which of the following is a water-tube boiler? Ans

✗ 1. Cornish boiler

✗ 2. Lancashire boiler

✗ 3. Cochran boiler

✓ 4. Babcock & Wilcox boiler

QuestionID:264330159931

Option1ID:264330627072

Option2ID:264330627073

Option3ID:264330627071

Option4ID:264330627074

Status: Answered

ChosenOption: 4

Q.60 What will be the absolute pressure (approximately) at a point 3m below the free surface of a liquid having a density of  $1530 \text{ kg/m}^3$ , if the atmospheric pressure is equivalent to 750mm of mercury? (The specific gravity of mercury is 13.6 and density of water is  $1000 \text{ kg/m}^3$ ,  $g=9.81 \text{ m/sec}^2$ )

Ans ✗ 1.  $1,00,250 \text{ N/m}^2$

✗ 2.  $95,648 \text{ N/m}^2$

✓ 3.  $1,45,090 \text{ N/m}^2$

✗ 4.  $78,560 \text{ N/m}^2$

QuestionID:264330159252

Option1ID:264330624367

Option2ID:264330624370

Option3ID:264330624369

Option4ID:264330624368

Status: Answered

ChosenOption: 3

Q.61 The pressure at the inlet of a refrigerant compressor is called \_\_\_\_\_.

- Ans
- 1. backpressure
  - 2. critical pressure
  - 3. suction pressure
  - 4. discharge pressure

QuestionID: 264330157187  
Option1ID: 264330616114  
Option2ID: 264330616113  
Option3ID: 264330616111  
Option4ID: 264330616112  
Status: Answered  
ChosenOption: 1

Q.62 If  $Q_1$  is the heat rejected to the source and  $Q_2$  is the heat extracted from the sink, the coefficient of performance (COP) of a heat pump is given by \_\_\_\_\_.

- Ans
- 1.  $\frac{Q_1}{Q_1 - Q_2}$
  - 2.  $\frac{Q_1 - Q_2}{Q_1}$
  - 3.  $\frac{Q_2}{Q_1 - Q_2}$
  - 4.  $\frac{Q_1 - Q_2}{Q_2}$

QuestionID: 26433099995  
Option1ID: 264330392554  
Option2ID: 264330392555  
Option3ID: 264330392553  
Option4ID: 264330392556  
Status: Answered  
ChosenOption: 1

Q.63 The function of condenser in refrigeration cooling system is \_\_\_\_\_.

- Ans
- 1. to reject heat out of the system
  - 2. to convert liquid refrigerant into vapour refrigerant
  - 3. to give heat into the system
  - 4. to give external work to the system

QuestionID: 26433096805  
Option1ID: 264330379958  
Option2ID: 264330379960  
Option3ID: 264330379957  
Option4ID: 264330379959  
Status: Answered  
ChosenOption: 1

Q.64 For internal laminar flow, the variation of shear stress in the radial direction is:

Ans  1. exponential

2. linear

3. hyperbolic

4. parabolic

QuestionID:264330159099

Option1ID:264330623758

Option2ID:264330623757

Option3ID:264330623756

Option4ID:264330623755

Status:Answered

ChosenOption:2

Q.65 An engine is working with temperature limits of  $29^{\circ}\text{C}$  and  $229^{\circ}\text{C}$ . It receives  $1000\text{ kW}$  and rejects  $429\text{ kW}$  of heat. Possible cycle executed by the engine is

Ans

1. Impossible cycle

2. Reversible cycle

3. Carnot cycle

4. Irreversible cycle

QuestionID:264330100573

Option1ID:264330394839

Option2ID:264330394837

Option3ID:264330394838

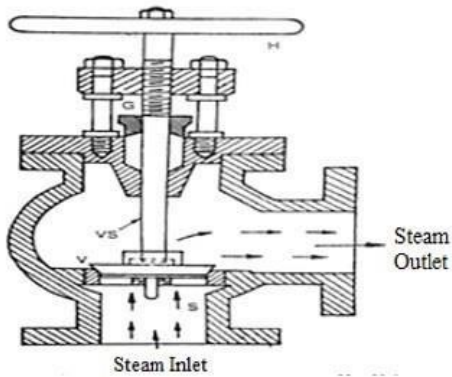
Option4ID:264330394840

Status:Answered

ChosenOption:1



Q.66 Following figure shows which of the following parts of a steam generator?



- Ans  1. Steam stop valve  
 2. Feed check valve  
 3. Blow-off cock  
 4. Safety valve

QuestionID: 264330100124  
Option1ID: 264330393071  
Option2ID: 264330393070  
Option3ID: 264330393072  
Option4ID: 264330393069  
Status: Answered  
ChosenOption: 1

Q.67 The value of atmospheric pressure in bar is \_\_\_\_\_.

- Ans  1. 1.01325  
 2. 1.5643  
 3. 2.01324  
 4. 0.9874

QuestionID: 264330159147  
Option1ID: 264330623949  
Option2ID: 264330623948  
Option3ID: 264330623947  
Option4ID: 264330623950  
Status: Answered  
ChosenOption: 1

Q.68 The flow through a capillary tube is an example of \_\_\_\_\_ flow.

- Ans  1. laminar  
 2. transition  
 3. compressible  
 4. turbulent

QuestionID: 264330159125  
Option1ID: 264330623859  
Option2ID: 264330623861  
Option3ID: 264330623862  
Option4ID: 264330623860  
Status: Answered  
ChosenOption: 1

Q.69 Find the enthalpy of 1 kg of dry and saturated steam at 10 bar if sensible heat at 10 bar is 762.8 kJ/kg and latent heat of evaporation at 10 bar is 2015.3

kJ/kg. Ans  1.762.8kJ

2.2778.1kJ

3.1252.5kJ

4.2015.3kJ

QuestionID:26433095596

Option1ID:264330375167

Option2ID:264330375166

Option3ID:264330375165

Option4ID:264330375168

Status:NotAnswered

ChosenOption:--

Q.70 The ratio of the energy received by the steam to the energy supplied by the fuel to produce steam in a steam boiler is known as \_\_\_\_\_.

Ans  1.boiler efficiency

2.equivalent evaporation

3.actualevaporation

4.boilerhorsepower

QuestionID:264330159958

Option1ID:264330627181

Option2ID:264330627180

Option3ID:264330627179

Option4ID:264330627182

Status:Answered

ChosenOption:1

Q.71 Which of the following is the correct statement relating to the centre of pressure on an immersed surface?

Ans  1.It is the point where the normal pressure acts.

2.It is the point where the resultant pressure acts.

3.It is the point where the weight of the body acts.

4.It is the point where the weight of the body and resultant pressure acts.

QuestionID:264330159148

Option1ID:264330623951

Option2ID:264330623954

Option3ID:264330623952

Option4ID:264330623953

Status:Answered

ChosenOption:2

Q.72 Vapour pressure is primarily associated with which phenomenon? Ans

- 1. Surging
- 2. Waterhammering
- 3. Cavitation
- 4. Capillarity

QuestionID:264330159245  
Option1ID:264330624340  
Option2ID:264330624339  
Option3ID:264330624342  
Option4ID:264330624341  
Status:Answered  
ChosenOption:3

Q.73 Pressure head of a fluid represents:

- Ans
- 1. energy per unit volume
  - 2. energy per unit mass
  - 3. energy per unit weight
  - 4. energy per unit length

QuestionID:26433096575  
Option1ID:264330379038  
Option2ID:264330379039  
Option3ID:264330379037  
Option4ID:264330379040  
Status:Answered  
ChosenOption:1

Q.74 In a steam boiler, the actual evaporation is 8 kg of steam per kg of fuel burnt. The heat supplied per kg of water is 2500 kJ/kg. Higher calorific value of fuel is 25,000 kJ/kg. What is the boiler efficiency?

- Ans
- 1. 0.75
  - 2. 0.25
  - 3. 0.80
  - 4. 0.10

QuestionID:264330159959  
Option1ID:264330627183  
Option2ID:264330627185  
Option3ID:264330627184  
Option4ID:264330627186  
Status:Answered  
ChosenOption:3

Q.75 The energy loss caused by abrupt enlargement is expressed by:

Ans

✓ 1.  $\left(\frac{V_1 - V_2}{\sqrt{2g}}\right)^2$

2.  $\left(\frac{V_1 - V_2}{g}\right)^2$

3.  $\left(\frac{V_1 - V_2}{2}\right)^2$

4.  $\left(\frac{V_1 - V_2}{2g}\right)^2$

QuestionID: 26433095670  
Option1ID: 264330375461  
Option2ID: 264330375463  
Option3ID: 264330375464  
Option4ID: 264330375462  
Status: Answered  
ChosenOption: 1

Q.76 In a mechanical draught system, draught is produced by \_\_\_\_\_.

Ans ✗ 1. chain grate stoker

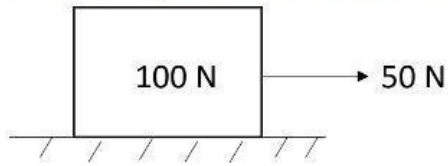
✗ 2. chimney

✓ 3. blower

✗ 4. pump

QuestionID: 264330100119  
Option1ID: 264330393049  
Option2ID: 264330393052  
Option3ID: 264330393050  
Option4ID: 264330393051  
Status: Answered  
ChosenOption: 3

Q.77 A body of weight 100 N is lying on a rough horizontal surface, and the horizontal force of 50 N is applied on the body as shown in the figure, which is just enough to move the body. What will be the coefficient of friction?



- Ans 1.0.5 ✓
- ✗ 2.0.6
  - ✗ 3.0.3
  - ✗ 4.0.4

QuestionID:26433096668  
Option1ID:264330379410  
Option2ID:264330379412  
Option3ID:264330379409  
Option4ID:264330379411  
Status:Answered  
ChosenOption:1

Q.78 The frictional resistance in a turbulent flow is independent of the \_\_\_\_\_.

- Ans 1. surface roughness ✗
- ✓ 2. pressure
  - ✗ 3. density of fluid
  - ✗ 4. velocity of fluid

QuestionID:264330100881  
Option1ID:264330396071  
Option2ID:264330396072  
Option3ID:264330396070  
Option4ID:264330396069  
Status:Answered  
ChosenOption:2

Q.79 In the thermodynamics system, the primary driving force for mass transfer is \_\_\_\_\_.

- Ans 1. concentration difference ✓
- ✗ 2. pressure difference
  - ✗ 3. mass difference
  - ✗ 4. temperature difference

QuestionID:264330157561  
Option1ID:264330617605  
Option2ID:264330617603  
Option3ID:264330617604  
Option4ID:264330617606  
Status:Answered  
ChosenOption:3

Q.80 Which of the following statements is correct about a working engine?

Ans ✓

1. Operation of the flywheel is continuous, whereas operation of the governor is more or less intermittent. ✓
2. Operation of both the flywheel and the governor is intermittent. ✗
3. Operation of both the flywheel and the governor is continuous. ✗
4. Operation of the governor is continuous, whereas operation of the flywheel is more or less intermittent. ✗

QuestionID:26433099799  
Option1ID:264330391793  
Option2ID:264330391795  
Option3ID:264330391794  
Option4ID:264330391796  
Status:Answered

ChosenOption:1

Q.81 Under steady state operation of a cone clutch, if semi-cone angle ( $\alpha$ ) decreases then

Ans ✗

1. the torque produced by clutch decreases ✗
2. does not affect the axial force ✓
3. the torque produced by clutch increases ✗
4. the axial force increases ✗

QuestionID:26433091064  
Option1ID:264330357665  
Option2ID:264330357668  
Option3ID:264330357666  
Option4ID:264330357667

Status:NotAnswered

ChosenOption:--

Q.82 An oil of specific gravity 0.8 is flowing through a pipe. A differential manometer is connected at the two points, say A and B, and shows a difference in the mercury levels as 20 cm. What will be the difference between the pressures at the two points?  
Take density of mercury =  $13600 \text{ kg/m}^3$  and  $g = 10 \text{ m/s}^2$ .

- Ans ✗
1.  $1280 \text{ kN/m}^2$  ✓
  2.  $25.6 \text{ kN/m}^2$  ✗
  3.  $25.6 \text{ N/m}^2$  ✗
  4.  $2560 \text{ N/m}^2$  ✗

QuestionID:264330100871  
Option1ID:264330396029  
Option2ID:264330396032  
Option3ID:264330396030  
Option4ID:264330396031  
Status:Answered

ChosenOption:2

Q.83 Flow process is used for which of the following systems? Ans

- 1. Closed system
- 2. Both open and closed systems
- 3. Open system
- 4. Isolated system

QuestionID:264330157530  
Option1ID:264330617480  
Option2ID:264330617482  
Option3ID:264330617479  
Option4ID:264330617481  
Status:Answered  
ChosenOption:3

Q.84 Which of the following is NOT a component of the water-cooling system with radiator? Ans

- 1. Centrifugal pump
- 2. Thermostat
- 3. Fan
- 4. Condenser

QuestionID:264330160201  
Option1ID:264330628144  
Option2ID:264330628143  
Option3ID:264330628145  
Option4ID:264330628146  
Status:Answered  
ChosenOption:4

Q.85 When any gas is heated at constant pressure, its change in volume varies directly with change in absolute temperature. This law is known as \_\_\_\_\_.

- Ans
- 1. Joule's law
  - 2. Boyle's law
  - 3. Charles' law
  - 4. Avogadro's law

QuestionID:26433095631  
Option1ID:264330375308  
Option2ID:264330375305  
Option3ID:264330375306  
Option4ID:264330375307  
Status:Answered  
ChosenOption:3

Q.86 Which of the following air-cooled condensers are used only in small capacity applications such as domestic refrigerators and room air conditioners?

- Ans
- 1. Natural convection air-cooled condensers
  - 2. Shell and coil condensers
  - 3. Remote air-cooled condensers
  - 4. Base mounted air-cooled condensers

QuestionID:264330157221  
Option1ID:264330616247  
Option2ID:264330616249  
Option3ID:264330616248  
Option4ID:264330616250

Status: Answered

ChosenOption: 1

Q.87 A rectifier is fitted in an ammonia absorption plant to:

- Ans
- 1. only remove the unwanted water vapour by cooling the vapour mixture
  - 2. remove the unwanted water vapour by heating the vapour mixture
  - 3. remove the unwanted water vapour by cooling the vapour mixture and condensing the water vapour
  - 4. superheat ammonia vapour

QuestionID:264330157251  
Option1ID:264330616369  
Option2ID:264330616367  
Option3ID:264330616370  
Option4ID:264330616368

Status: Answered

ChosenOption: 2

Q.88 In a steam boiler, an economiser is used for heating of \_\_\_\_\_.

- Ans
- 1. air
  - 2. fuel
  - 3. feedwater
  - 4. flue gases

QuestionID:264330159938  
Option1ID:264330627099  
Option2ID:264330627101  
Option3ID:264330627100  
Option4ID:264330627102

Status: Answered

ChosenOption: 3



Q.89 Which of the following does NOT describe the Diesel cycle? Ans

- 1. High compression ratio
- 2. Limited maximum temperature
- 3. No spark plug needed
- 4. Constant volume heat addition

QuestionID:264330160302

Option1ID:264330628548

Option2ID:264330628549

Option3ID:264330628550

Option4ID:264330628547

Status:Answered

ChosenOption:4

Q.90 The Energy Gradient line will \_\_\_\_\_.

Ans

- 1. lie below the Hydraulic Gradient line
- 2. lie above the Hydraulic Gradient line
- 3. coincide with Hydraulic Gradient line
- 4. coincide with pipe axis

QuestionID:26433095674

Option1ID:264330375478

Option2ID:264330375477

Option3ID:264330375479

Option4ID:264330375480

Status:Answered

ChosenOption:2

Q.91 In a lubrication method, the oil is kept in the crankcase and it is splashed by using the end of a connecting rod to various components of the engine. This method is called \_\_\_\_\_.

Ans

- 1. sum lubrication
- 2. splash lubrication
- 3. pump lubrication
- 4. pressure lubrication

QuestionID:264330158724

Option1ID:264330622255

Option2ID:264330622257

Option3ID:264330622258

Option4ID:264330622256

Status:Answered

ChosenOption:2

Q.92 The mass flow rate in inlet and outlet in case of \_\_\_\_\_.

- Ans
- 1. isolated system
  - 2. non-steady flow process
  - 3. closed system
  - 4. steady flow process

QuestionID:26433095642  
Option1ID:264330375351  
Option2ID:264330375349  
Option3ID:264330375352  
Option4ID:264330375350  
Status:Answered  
ChosenOption:3

Q.93 \_\_\_\_\_ is a metal working process which is an example of forging.

- Ans
- 1. Extrusion
  - 2. Welding
  - 3. Upsetting
  - 4. Casting

QuestionID:264330157911  
Option1ID:264330619003  
Option2ID:264330619005  
Option3ID:264330619006  
Option4ID:264330619004  
Status:Answered  
ChosenOption:3

Q.94 The net effect of superheating after compression in vapour compression refrigeration cycle is to have \_\_\_\_\_.

- Ans
- 1. low C.O.P
  - 2. decrease in refrigeration effect
  - 3. high C.O.P
  - 4. decrease in refrigeration capacity

QuestionID:264330157257  
Option1ID:264330616391  
Option2ID:264330616393  
Option3ID:264330616392  
Option4ID:264330616394  
Status:Answered  
ChosenOption:1

Q.95 Which of the following statements is true about a four-stroke engine in comparison to a two-stroke engine?

- Ans
- 1. Owing to one power stroke in two revolutions, a lighter flywheel is required.
  - 2. A four-stroke engine only uses the diesel cycle, while a two-stroke engine only uses the Otto cycle.
  - 3. Thermal efficiency and part-load efficiency of a four-stroke engine are better than those of a two-stroke engine.
  - 4. Volumetric efficiency of a four-stroke engine is comparatively low, due to less power output.

QuestionID:264330158742

Option1ID:264330622327

Option2ID:264330622330

Option3ID:264330622329

Option4ID:264330622328

Status: Answered

ChosenOption:3

Q.96 The duplex feed pump is:

- Ans
- 1. Centrifugal pump
  - 2. Double-acting reciprocating pump
  - 3. Axial-flow pump
  - 4. Single-acting reciprocating pump

QuestionID:264330159940

Option1ID:264330627109

Option2ID:264330627108

Option3ID:264330627110

Option4ID:264330627107

Status: Answered

ChosenOption:2

Q.97 Which of the following is NOT a type of wet-sump lubrication system? Ans

- 1. Splash lubrication system
- 2. Pump lubrication system
- 3. Mist lubrication system
- 4. Pressure lubrication system

QuestionID:264330160203

Option1ID:264330628152

Option2ID:264330628154

Option3ID:264330628151

Option4ID:264330628153

Status: Answered

ChosenOption:3

Q.98 What will be the mass density of one litre of a fluid which weighs 9.81 N? (Take  $g = 9.81 \text{ m/sec}^2$ )

Ans 1. 1000 gm/cm<sup>3</sup> ✗

✓ 2. 1000 kg/m<sup>3</sup>

✗ 3. 100 gm/cm<sup>3</sup>

✗ 4. 100 kg/m<sup>3</sup>

QuestionID:26433096272

Option1ID:264330377838

Option2ID:264330377840

Option3ID:264330377839

Option4ID:264330377837

Status:Answered

ChosenOption:2

Q.99 Which turbine is suitable where a large discharge at low head is available? Ans

1. Kaplan turbine ✓

✗ 2. Turgo turbine

✗ 3. Pelton turbine

✗ 4. Francis turbine

QuestionID:26433096718

Option1ID:264330379609

Option2ID:264330379612

Option3ID:264330379611

Option4ID:264330379610

Status:Answered

ChosenOption:1

Q.100 Which of the following losses fall into the category of major losses? Ans

1. Head loss due to sudden enlargement ✗

✗ 2. Head loss due to sudden contraction

✗ 3. Head loss due to bend of pipe

✓ 4. Head loss due to friction

QuestionID:26433095668

Option1ID:264330375455

Option2ID:264330375456

Option3ID:264330375454

Option4ID:264330375453

Status:Answered

ChosenOption:4