Junior Engineer (Civil, Mechanical, Electrical and Quantity Surveying & Contracts) Examination, 2020 (Paper-I)

Roll Number	
Candidate Name	
Venue Name	iON Digital Zone iDZ
Exam Date	22/03/2021
Exam Time	10:00 AM - 12:00 PM
Subject	Junior Engineering Mechanical

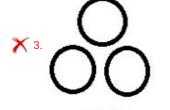
Section: General Intelligence and Reasoning

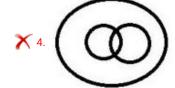
Q.1 उस वेन आरेख का चयन करें, जो निम्नलिखित वर्गों/श्रेणियों के बीच संबंधों को सबसे अच्छी तरह दर्शाता है। इलायची, काजू, मसाले

Ans





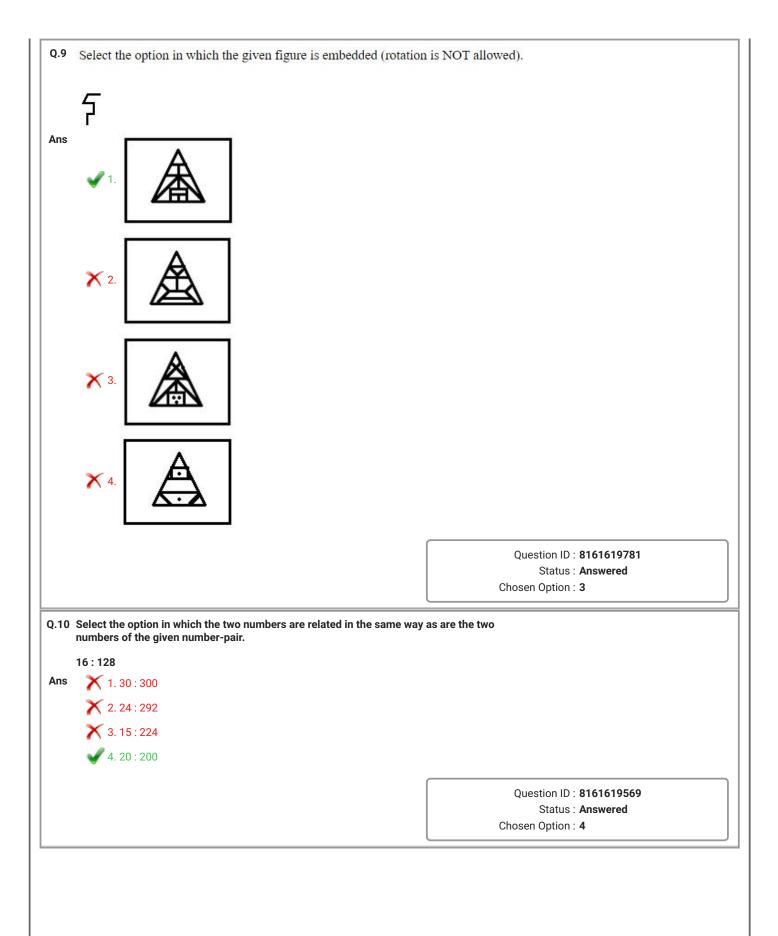




Question ID : **8161619184** Status : **Answered**

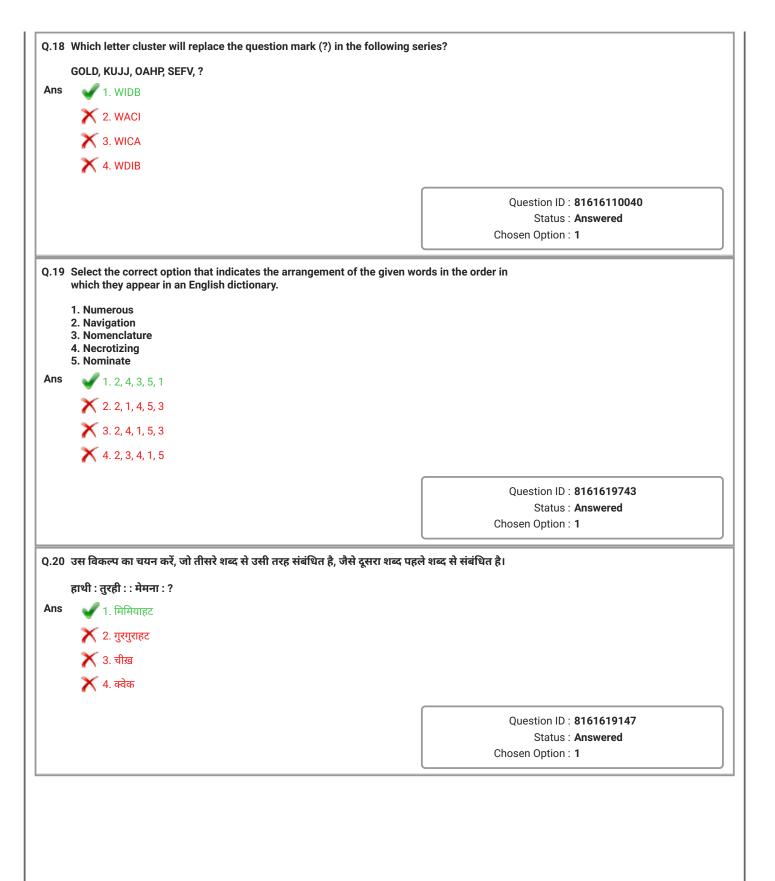
Q.2	.2 In a certain code language, FLEXIBLE is coded as 42-30-44-6-18-4-24-10. How will CEMENTED be coded in that language?	
Ans	s X 1. 6-10-26-44-28-40-10-10	
	× 2. 46-44-28-44-28-42-22-8	
	X 3. 48-10-28-44-26-40-44-12	
4. 48-44-28-44-28-40-10-8		
		Question ID : 8161619357
		Status : Not Attempted and Marked For Review
		Chosen Option :
Q.3	Select the letter from among the given options that can replace the que following series.	stion mark (?) in the
	H, A, T, M, ?, Y	
Ans	X 1. C	
	X 2. R	
	X 3. X	
	√ 4. F	
		Question ID : 8161619536 Status : Answered
		Chosen Option : 4
Q.4	4 Choose the pair that best represents a similar relationship to the one expressed in the original pair of words. Japan : Yen	
Ans	1. Belgium : Dollar	
	× 2. Norway : Euro	
	X 3. Italy: Pound	
	3. Italy . Poulid 4. Myanmar : Kyat	
	,	
		Question ID: 8161619748
		Status : Answered Chosen Option : 2
Q.5	Which number will replace the question mark (?) in the following series	?
	4, 21, 39, 61, 92, 139, ?	
Ans	1. 211	
	× 2. 212	
	X 3. 221	
	X 4. 201	
		Question ID : 8161619867
		Status : Not Attempted and Marked For Review
		Chosen Option :
		Onosch Option

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. GLOBAL: MFLYGF:: TARGET:? Ans X 1. BUIUKN 2. ZUITKN 🗙 3. BUIUNJ X 4. ZSQTJN Question ID: 8161619753 Status: Answered Chosen Option: 2 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. Sunday: Thursday:: Friday:? X 1. Wednesday 2. Tuesday 3. Thursday 4. Saturday Question ID: 81616110045 Status: Answered Chosen Option: 2 Q.8 M is the sister of N and O. P is the father of O. Q is the mother of M. Considering this information, which of the following statements CANNOT be verified? Ans X 1. Q is the mother of N X 2. P is the father of M √ 3. N is Q's son X 4. P is Q's husband Question ID: 8161619862 Status: Answered Chosen Option: 3



Q.11 Choose the pair that best represents a similar relationship to the one expressed in the original pair of words. Frequency: Hertz Ans 💢 1. Resistance : Kelvin 2. Energy: Newton 💢 3. Volume : Square metre 4. Heat : Joule Question ID: 8161619149 Status: Answered Chosen Option: 4 Q.12 Which letter cluster will replace the question mark (?) in the following series? CLAP, BNXT, APUX, ZRRB, ?, XVLJ Ans X 1. YSNF X 2. YOTF 3. YTOF X 4. YNSF Question ID: 8161619739 Status: Answered Chosen Option: 3 Q.13 Select the option that is correct for the bracketed letters with respect to their inclusion in the given series. F, K, H, F, L, A, (S), V, Z, Q, J, (L) 1. Both the bracketed letters are correct. 2. The first bracketed letter is incorrect and the second bracketed letter is correct. X 3. The first bracketed letter is correct and the second bracketed letter is incorrect. 4. Both the bracketed letters are incorrect. Question ID: 8161619737 Not Attempted and Status: **Marked For Review** Chosen Option: --Q.14 Select the option that is related to the third term in the same way as the second term is related to the first term. **SOLUTE: UNNTVD:: CLUTCH:?** Ans 1. BNTVBJ 2. EKWSEG 3. BNWSBJ X 4. EKTVEG Question ID: 81616110052 Status: Answered Chosen Option: 2

Q.15 Arjun walks 22 metres southward. Then turning to his right, he walks 22 metres to reach an ATM. Then turning to his left, he walks 20 metres to reach a bookstall. Again, he turns to his left and walks 22 metres to reach his office. How far is he from his starting point? Ans X 1. 40 m 🗙 2. 38 m 3. 42 m X 4. 44 m Ouestion ID: 8161619761 Status: Answered Chosen Option: 3 Q.16 A cube is made by folding the given sheet. In the cube so formed, which of the following pairs of letters will be on opposite sides? Ans √ 1. V and Z X 2. T and Z X 3. U and W X 4. T and X Question ID: 8161618978 Status: Answered Chosen Option: 1 Q.17 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements: 1. Some actresses are hair-stylists. 2. All hair-stylists are anchors. **Conclusions:** I. Some hair-stylists are actresses. II. Some anchors are hair-stylists. 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 Question ID: 8161619358 Status: Answered Chosen Option: 1



Q.21 Nine friends, Ananya, Bryson, Catalina, Druva, Eva, Fanish, Girik, Hariraj and Kunj are, have gone for a candle light dinner, and they are sitting around a circle facing the centre. Fanish is 4th to the right of Ananya, who is 3rd to the right of Bryson. Kunj is 4th to the left of Bryson and 3rd to the right of Druva. Catalina is 3rd to the right of Hariraj. Eva is 2nd to the left of Girik.

Who is sitting between Girik and Eva?

Ans



X 2. Catalin



🗙 4. Hariraj

Question ID : 8161619764 Status : Answered

Chosen Option: 1

- Q.22 Select the correct option that indicates the arrangement of the given words in a logical and meaningful order.
 - 1. Microgram
 - 2. Kilogram
 - 3. Milligram
 - 4. Gram
 - 5. Nanogram

Ans



2. 3, 5, 1, 2, 4

3. 1, 5, 4, 2, 3

X 4. 5, 1, 2, 4, 3

Question ID: 81616110042

Status: Answered

Chosen Option: 1

- Q.23 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.
 - 1. Cradle
 - 2. Crown
 - 3. Crockery
 - 4. Cracker
 - 5. Crowd

Ans

X 1. 1, 4, 2, 5, 3

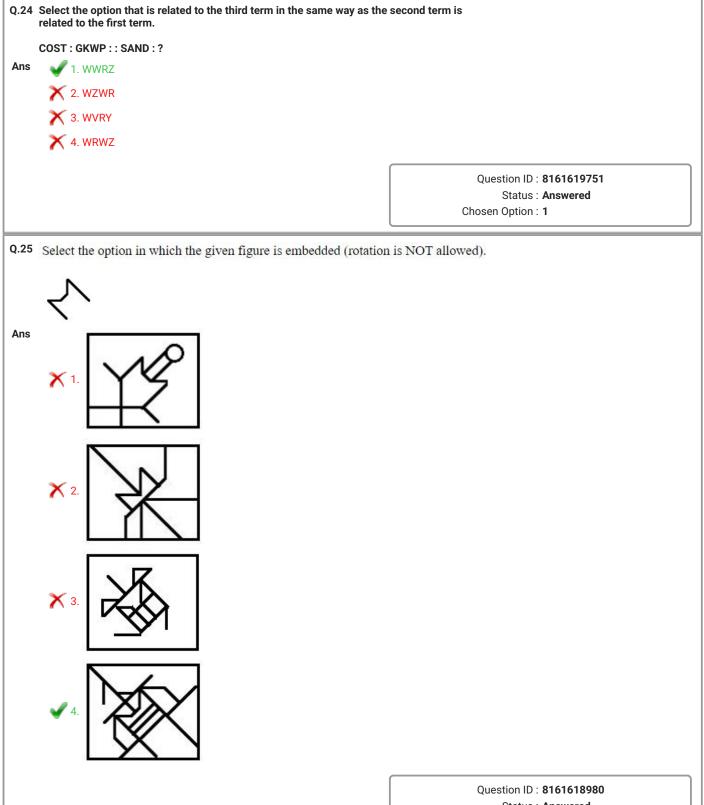
2. 1, 4, 5, 3, 2

3. 4, 1, 3, 5, 2

X 4. 4, 1, 2, 5, 3

Question ID: 8161619841

Status : Answered



Status: Answered
Chosen Option: 4

Q.26 In the following figure, the square represents singers, the triangle represents directors, the circle represents producers, and the rectangle represents script writers. Which set of letters represents producers who are also directors? Ans X 1. T, S X 2. S, U, W X 3. V, R ✓ 4. P, Q Question ID: 8161619885 Status: Answered Chosen Option: 4 Q.27 Select the option in which the given figure is embedded (rotation is NOT allowed). Ans Question ID: 8161619579 Status: Answered

Q.28 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the given figures. How would this paper look when unfolded? Ans

Question ID : **8161618983**Status : **Answered**Chosen Option : **3**

Q.29 Which two signs should be interchanged to make the given equation correct?

 $30 + 2 \div 3 \times 6 - 5 = 28$

Ans

X 1. + and -

× 2. × and -

√ 3. + and ÷

X 4. × and ÷

Question ID : **8161619874** Status : **Answered**

Q.30	30 Which letter cluster will replace the question mark (?) in the following series?		
	SAT, TEW, UIZ, VOC, ?, XAI		
Ans	***		
	× 2. FEW		
	√ 3. WUF		
	X 4. WEF		
		Ougation ID	: 8161619738
		· ·	: Answered
		Chosen Option	: 3
	× 2. 602		
	√ 3. 520		
	× 4. 620		
			8161619777 Not Attempted and Marked For Review
Q.32	Which number will replace the question mark (?) in the following series?		
	6, 9, 13, 25, 64, 167, ?		
Ans	√ 1. 395		
	× 2. 359		
	X 3. 375		
	X 4. 357		
		Question ID	8161619768
		Status	Not Attempted and Marked For Review
		Chosen Option	

Q.33 Two statements are given, followed by four conclusions numbered I, II, III, IV. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

- 1. No watch is a cell.
- 2. All cells are pendulums.

Conclusions:

- I. No watch is a pendulum.
- II. No pendulum is a watch.
- III. Some pendulums are cells.
- IV. All pendulums are cells.

Ans

1. Both conclusions I and IV follow



X 2. Both conclusions I and II follow



3. Only conclusion III follows



X 4. Only conclusion I follows

Question ID: 81616110059 Status: Answered

Chosen Option: 3

Q.34 उस शब्द-युग्म का चयन कीजिए जिसके शब्दों के मध्य वही संबंध है जो दिए गए शब्द-युग्म के शब्दों के मध्य है।

फैलाना : दबाना

Ans

🖤 1. पवित्र : अपवित्र





X 3. अनिच्छुक : संकोची

🗙 ४. शांत : दयालु

Question ID: 8161619850 Status: Answered

Chosen Option: 1

- Q.35 Select the correct option that indicates the arrangement of the given words in a logical and meaningful order.
 - 1. Muscat
 - 2. Royal Opera House
 - 3. World
 - 4. Oman
 - 5. Asia

Ans

X 1. 3, 2, 4, 1, 5

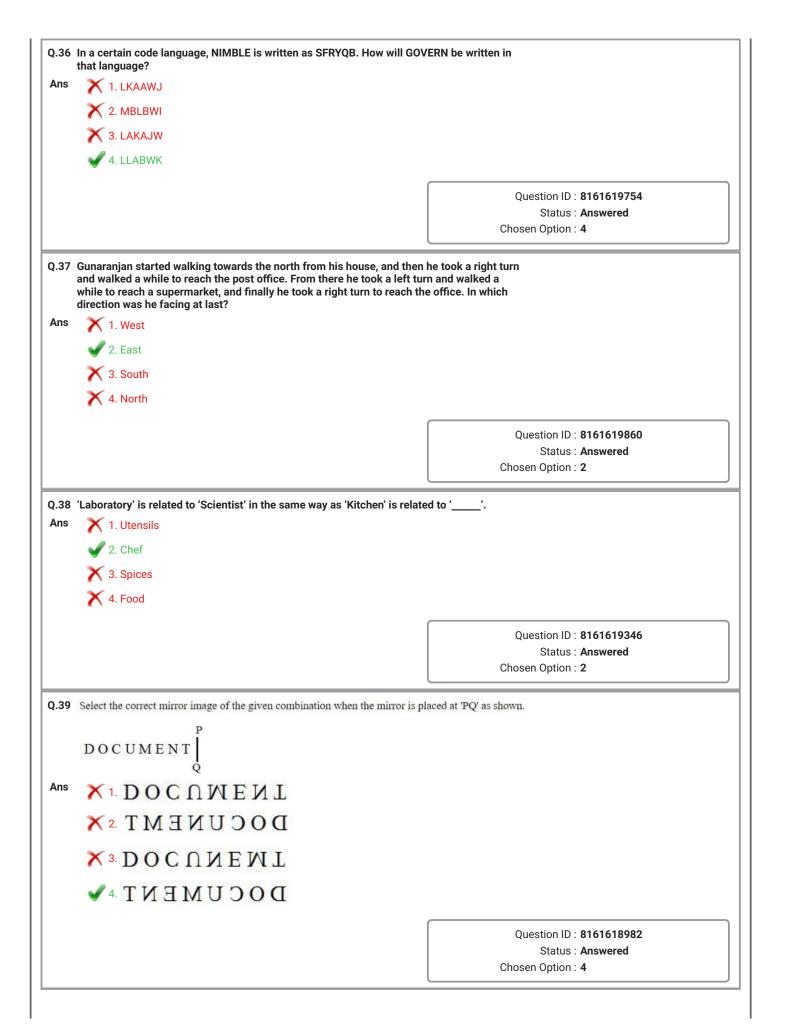


3. 3, 5, 4, 1, 2

X 4. 3, 5, 1, 4, 2

Question ID: 8161619844

Status: Answered



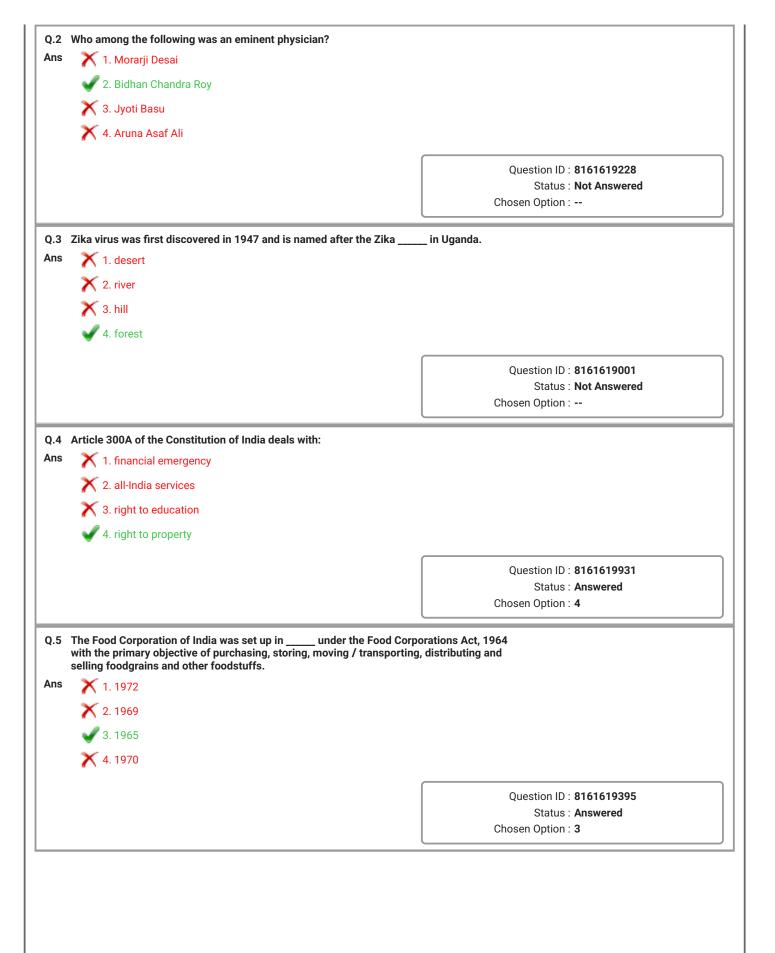
Q.40	10 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.		
	15:38::17:?::19:50		
Ans	X 1.45		
	× 2. 47		
	√ 3. 44		
	X 4. 41		
	•		
		Question ID : 8161619170	
		Status : Answered Chosen Option : 3	
Q.41	Five houses, A, B, C, D and E, are located in a colony. A is 48 m north B. B is 35 m south to D. D is 20 m west to C. In which direction and at located with reference to B?		
Ans	✓ 1. North, 83m		
	× 2. North, 68m		
	X 3. South, 83m		
	X 4. South, 68m		
	•		
		Question ID : 8161619365	
		Status : Not Attempted and Marked For Review	
		Chosen Option :	
Ans	6 8 10 6 18 12 12 ? 24		
	4. 30		
		Question ID : 8161619773	
		Status : Not Attempted and Marked For Review	
		Chosen Option :	
Q.43	In a certain code language, NORMAL is written as DIPKRO and OBTA DYLKRQ. How will PROFIT be written in that language?	IN is written as	
Ans	X 1. IRFUMQ		
	X 2. IERLUP		
	√ 3. IFRMUQ		
	X 4. IREULP		
		0 12 24444	
		Question ID: 8161619755 Not Attempted and	
		Status : Not Attempted and Marked For Review	
		Chosen Option :	

44 Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.	
306 * 17 * 38 * 2 * 41 = 53	
1. ÷, +, ×, -	
X 2. ÷, +, −, ×	
X 3. +, ÷, −,×	
X 4. +, ÷, ×, −	
	2 12 244442
	Question ID : 8161618975 Status : Answered
	Chosen Option : 1
45 If BEST is coded as 4321 and MAKE is coded as 7983, then how will BE $_{ m 1.4391}$	AT De coded?
× 2. 3419	
★ 3. 3491	
★ 4. 4319	
4.4013	
	Question ID: 8161619856
	Status : Answered
	Chosen Ontion · 1
	Chosen Option : 1
46 Select the option that is related to the third number in the same way as is related to the first number.	
46 Select the option that is related to the third number in the same way as is related to the first number. 36:162::24:?	
is related to the first number.	
is related to the first number. 36:162::24:?	
is related to the first number. 36:162::24:? 1.138	
is related to the first number. 36:162::24:? 1.138 2.183	
is related to the first number. 36:162::24:? 1.138 2.183 3.180	the second number
is related to the first number. 36:162::24:? 1.138 2.183 3.180	the second number Question ID: 8161619871
is related to the first number. 36:162::24:? 1.138 2.183 3.180	the second number
is related to the first number. 36:162::24:? 1.138 2.183 3.180	Question ID: 8161619871 Status: Answered Chosen Option: 4
is related to the first number. 36:162::24:? X 1.138 X 2.183 X 3.180 4.108 The marks obtained by three students, Akun, Vishwaj and Sarayu, in a in the ratio of 14:16:24. If sum of the marks obtained by them is 162 between the difference of the marks obtained by Vishwaj and Akun and	Question ID : 8161619871 Status : Answered Chosen Option : 4 mathematics test are then find the ratio
is related to the first number. 36:162::24:? X 1.138 X 2.183 X 3.180 4.108 The marks obtained by three students, Akun, Vishwaj and Sarayu, in a in the ratio of 14:16:24. If sum of the marks obtained by them is 162 between the difference of the marks obtained by Vishwaj and Akun and marks obtained by Sarayu and Vishwaj.	Question ID: 8161619871 Status: Answered Chosen Option: 4
is related to the first number. 36:162::24:? 1.138 2.183 3.180 4.108 4.108 The marks obtained by three students, Akun, Vishwaj and Sarayu, in a in the ratio of 14:16:24. If sum of the marks obtained by them is 162 between the difference of the marks obtained by Vishwaj and Akun and marks obtained by Sarayu and Vishwaj.	Question ID: 8161619871 Status: Answered Chosen Option: 4

Question ID : **8161619876**Status : Not Attempted and Marked For Review

Chosen Option : --

Q.48 'U + V' means 'U is the brother of V', 'U \times V' means 'U is the husband of V', and 'U ÷ V' means 'U is the mother of V'. If 'Y × X \div R + N × P \div S + M', then which of the following statements is correct? Ans 1. N is the father of M X 2. S is the son of R X 3. X is the mother of P X 4. Y is the mother of N Question ID: 8161619863 Status: Answered Chosen Option: 1 Q.49 Which number will replace the question mark (?) in the following series? 18, 22, 13, 29, 4, 40, -9, ? Ans 1.45 **X** 2. 65 Question ID: 8161619766 Status : Not Attempted and **Marked For Review** Chosen Option: --Q.50 Select the option in which the numbers are related in the same way as are the numbers in the given set. (4, 7, 38)1. (5, 10, 43) Ans **X** 2. (11, 31, 158) **X** 3. (6, 23, 118) 4. (8, 19, 98) Question ID: 8161619772 Status: Answered Chosen Option: 4 Section: General Awareness Q.1 The Jim Corbett National Park is situated in which state of India? Ans X 1. Karnataka X 2. Bihar 3. Uttarakhand X 4. Rajasthan Question ID: 81616110118 Status: Answered Chosen Option: 3



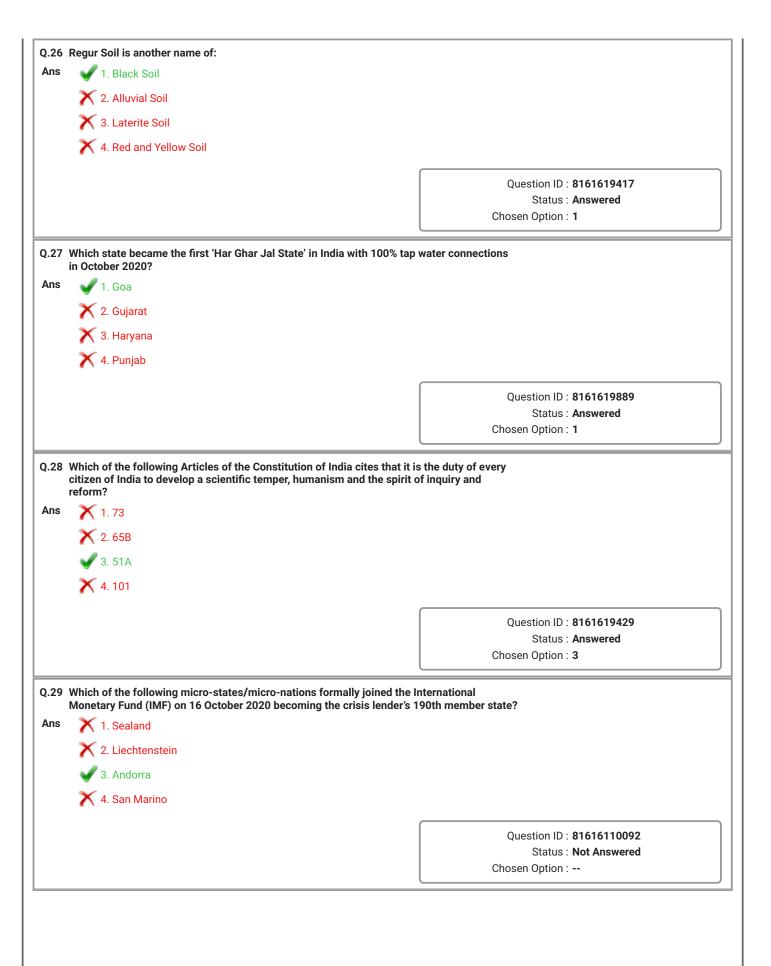
Q.6	निम्नलिखित में से कौन अरेखित मांसपेशियों का एक उदाहरण है?		
Ans	ns 🔀 1. भुजाओं की मांसपेशियां		
	🗹 2. नेत्र में पुतली (परितारिका) की मांसपेशियां		
	🗙 3. हृदय संबंधी मांसपेशियां		
	🔀 4. पैरों की मांसपेशियां		
		Question ID : 8161619802	
		Status : Answered	
		Chosen Option : 2	
Q.7	Q.7 A safety seat belt in a car exerts a force on our body to:		
Ans	X 1. facilitate some kind of backward motion		
	X 2. make our forward motion faster		
	X 3. rule out any kind of backward motion		
	4. make our forward motion slower		
		0 1: 10 044440044	
		Question ID : 8161619211 Status : Answered	
		Chosen Option : 4	
0.8	Ostriches were found in India during the Palaeolithic period. Large quan	tities of netrich eag	
	shells were found at		
Ans	X 1. Inamgaon		
	2. Patne		
	X 3. Patna		
	X 4. Chirand		
		Question ID : 8161619422	
		Status : Answered	
		Chosen Option : 2	
Q.9	Which of the following Committees is associated with the 'Ecology of W	estern Ghats'?	
Ans	1. Gadgil Committee		
	× 2. Sarkaria Committee		
	3. Khan Committee		
	X 4. Mishra Committee		
		Question ID : 8161619604	
		Status : Answered	
		Chosen Option : 1	

Q.10	Q.10 During which of the following sessions of Indian National Congress did Subhash Chandra Bose resign from the Presidentship of INC?		
Ans	s 1. Tripuri 2. Calcutta		
	X 3. Jaipur		
	X 4. Haripura		
		Question ID : 8161619425 Status : Answered	
		Chosen Option : 2	
Q.11 Ans	जब मिश्रण में भारी घटक पानी में मिलाने के बाद नीचे बैठ जाता है, तो	इस प्राक्रया का क्या कहा जाता ह?	
Allo	🗙 1. छानना (sieving)		
	🗙 2. ध्रेशिंग (threshing)		
	🗙 3. सूत्रण (yarning)		
	🗸 ४. अवसादन (sedimentation)		
		Question ID: 8161619901	
		Status : Answered	
		Chosen Option : 4	
Q.12	Chemical disinfection of drinking water can be done using:	:	
Ans	X 1. bromine		
	X 2. fluorine		
	3. chlorine		
	X 4. iodine		
		Question ID : 8161619898 Status : Answered	
		Chosen Option : 3	
Q.13 Ans	Who is the Visitor of the Pondicherry University? 1. Lt. Governor of Puducherry		
	2. Vice President of India		
	3. President of India		
	· ·		
	X 4. Prime Minister of India		
		Question ID : 8161619232	
		Status : Answered	
ı		Chosen Option : 1	

Q.14	In 2020, Scientists from Agharkar Research Institute, Pune, discovered a plant group known as pipeworts, from the:	two new species of
Ans	X 1. Thar Desert	
	× 2. Himalayas	
	✓ 3. Western Ghats	
	🗙 4. Eastern Ghats	
		Question ID : 8161619202 Status : Not Answered
		Chosen Option :
Q.15	As per the Indian Minerals Yearbook 2015, which state is the largest prindia?	oducer of mica in
Ans	🔀 1. Odisha	
	× 2. Uttar Pradesh	
	X 3. Telangana	
	√ 4. Andhra Pradesh	
		Question ID : 81616110115 Status : Not Answered
		Chosen Option :
	The Consumer Price Index or CPI is an index used to calculate the	_ of a country.
Ans	X 1. forex	
	2. GDP growth	
	X 3. Income tax	
	√ 4. retail inflation	
		Question ID : 8161619394
		Status : Answered
		Chosen Option : 4
Q.17	Which of the following is a cause of pollution of water resources?	
Ans	X 1. Dead aquatic plants	
	× 2. Deforestation	
	X 3. Dead aquatic animals	
	✓ 4. Radioactive substances	
	•	
		Question ID : 8161619911
		Status : Answered Chosen Option : 3

Curb property and land-related disputes in rural areas? Ans 1. Uttar Pradesh 2. Bihar 3. Odisha 4. Rajasthan Question ID: 8161619390 Status: Not Answered Chosen Option: Q.19 In 2020, the Council of Scientific and Industrial Research (CSIR) and KPIT Technologies successfully ran trials of India's first Hydrogen Fuel Cell (HFC) prototype car running on an indigenously developed fuel cell stack at CSIR-National Chemical Laboratory, Ans 1. Delhi	
3. Odisha 4. Rajasthan Question ID: 8161619390 Status: Not Answered Chosen Option: Q.19 In 2020, the Council of Scientific and Industrial Research (CSIR) and KPIT Technologies successfully ran trials of India's first Hydrogen Fuel Cell (HFC) prototype car running on an indigenously developed fuel cell stack at CSIR-National Chemical Laboratory, Ans 1. Delhi	
Question ID: 8161619390 Status: Not Answered Chosen Option: Q.19 In 2020, the Council of Scientific and Industrial Research (CSIR) and KPIT Technologies successfully ran trials of India's first Hydrogen Fuel Cell (HFC) prototype car running on an indigenously developed fuel cell stack at CSIR-National Chemical Laboratory, Ans 1. Delhi	
Question ID: 8161619390 Status: Not Answered Chosen Option: Q.19 In 2020, the Council of Scientific and Industrial Research (CSIR) and KPIT Technologies successfully ran trials of India's first Hydrogen Fuel Cell (HFC) prototype car running on an indigenously developed fuel cell stack at CSIR-National Chemical Laboratory, Ans 1. Delhi	
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•	
🔀 2. Chandigarh	
√ 3. Pune	
X 4. Hyderabad	
Overstion ID - 0454540544	
Question ID : 8161619614 Status : Answered	
Chosen Option : 1	
Q.20 With which of the following states does Tripura share a common border?	
Ans X 1. Arunachal Pradesh	
× 2. West Bengal	
√ 3. Assam	
X 4. Nagaland	
Question ID : 8161619421 Status : Answered	
Chosen Option : 3	
Q.21 Gandhiji started his famous Dandi March from: Ans 1. Sevagram Ashram	
2. Sabarmati Ashram	
3. Porbandar House	
X 4. Agra Fort	
4. Agra FOTT	
Question ID : 8161619623	
Status : Answered Chosen Option : 2	
Citoseii Option . Z	

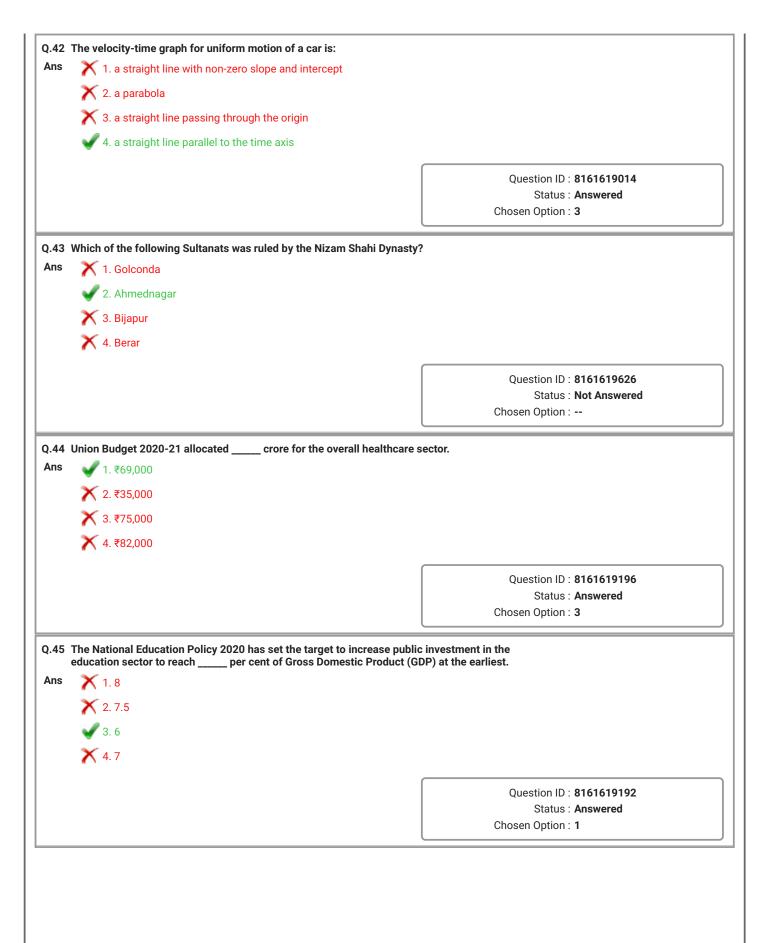
	Who among the following won the 'ICC Spirit of Cricket Award 2020?	of the Decade' in December
Ans	X 1. Sachin Tendulkar	
	X 2. Kumar Sangakkara	
	X 3. Jacques Kallis	
	✓ 4. MS Dhoni	
		Question ID : 8161619827 Status : Answered
		Chosen Option: 4
Q.23 Ans	On which day does India observe National Consumer Day?	
AllS	1. 23rd August	
	2. 24th December	
	X 3. 1st January	
	X 4. 5th January	
		Question ID: 8161619389
		Status: Not Answered
		Chosen Option :
	1. right ventricle2. left ventricle	
	X 3. left atrium X 4. mitral valve	
	X 3. left atrium	Ougation ID : 9161610100
	X 3. left atrium	Question ID : 8161619199 Status : Answered
	X 3. left atrium	
Q.25	X 3. left atrium	Status : Answered Chosen Option : 1
Q.25 Ans	X 3. left atrium X 4. mitral valve Malicious software is any program or file that is harmful to a confollowing is malicious software?	Status : Answered Chosen Option : 1
	X 3. left atrium X 4. mitral valve Malicious software is any program or file that is harmful to a confollowing is malicious software?	Status : Answered Chosen Option : 1
	3. left atrium 4. mitral valve Malicious software is any program or file that is harmful to a c following is malicious software? 1. Malware	Status : Answered Chosen Option : 1
	X 3. left atrium X 4. mitral valve Malicious software is any program or file that is harmful to a c following is malicious software? 1. Malware X 2. Nero Burning ROM	Status : Answered Chosen Option : 1
	 3. left atrium 4. mitral valve Malicious software is any program or file that is harmful to a confollowing is malicious software? 1. Malware 2. Nero Burning ROM 3. Bonjour 	Status : Answered Chosen Option : 1 omputer user. Which of the
	 3. left atrium 4. mitral valve Malicious software is any program or file that is harmful to a confollowing is malicious software? 1. Malware 2. Nero Burning ROM 3. Bonjour 	Status : Answered Chosen Option : 1



Ans	Question ID : 8161619400 Status : Not Answered Chosen Option :
Q.31 The Kudankulam Civilian Nuclear Power Plant was built by India in joint collabor Ans	Status: Answered Chosen Option: 2 tion with Question ID: 8161619400 Status: Not Answered Chosen Option:
Q.31 The Kudankulam Civilian Nuclear Power Plant was built by India in joint collabor Ans	Status: Answered Chosen Option: 2 tion with Question ID: 8161619400 Status: Not Answered Chosen Option:
Q.31 The Kudankulam Civilian Nuclear Power Plant was built by India in joint collabor Ans 1. France 2. Russia 3. Japan 4. Germany Q.32 A is a passive two-terminal electrical component that implements electric resistance as a circuit element. Ans 1. capacitor 2. resistor 3. diode 4. transistor Q.33 Who among the following discovered vaccination against anthrax? Ans 1. Maurice Hilleman	Status: Answered Chosen Option: 2 tion with Question ID: 8161619400 Status: Not Answered Chosen Option:
Ans 1. France 2. Russia 3. Japan 4. Germany 4. Germany 1. capacitor 2. resistance as a circuit element. Ans 1. capacitor 3. diode 4. transistor Q.33 Who among the following discovered vaccination against anthrax? Ans 1. Maurice Hilleman	Status: Answered Chosen Option: 2 tion with Question ID: 8161619400 Status: Not Answered Chosen Option:
Ans 1. France 2. Russia 3. Japan 4. Germany 4. Germany 1. capacitor 2. resistance as a circuit element. Ans 1. capacitor 3. diode 4. transistor Q.33 Who among the following discovered vaccination against anthrax? Ans 1. Maurice Hilleman	Status: Answered Chosen Option: 2 tion with Question ID: 8161619400 Status: Not Answered Chosen Option:
Ans 1. France 2. Russia 3. Japan 4. Germany 4. Germany 1. capacitor 2. resistance as a circuit element. Ans 1. capacitor 3. diode 4. transistor Q.33 Who among the following discovered vaccination against anthrax? Ans 1. Maurice Hilleman	Question ID: 8161619400 Status: Not Answered Chosen Option:
Ans 1. France 2. Russia 3. Japan 4. Germany 4. Germany 1. capacitor 2. resistance as a circuit element. Ans 1. capacitor 3. diode 4. transistor Q.33 Who among the following discovered vaccination against anthrax? Ans 1. Maurice Hilleman	Question ID : 8161619400 Status : Not Answered Chosen Option :
Ans 1. France 2. Russia 3. Japan 4. Germany 4. Germany 1. capacitor 2. resistance as a circuit element. Ans 1. capacitor 3. diode 4. transistor Q.33 Who among the following discovered vaccination against anthrax? Ans 1. Maurice Hilleman	Question ID : 8161619400 Status : Not Answered Chosen Option :
Q.32 A is a passive two-terminal electrical component that implements electric resistance as a circuit element. Ans 1. capacitor 2. resistor 3. diode 4. transistor Q.33 Who among the following discovered vaccination against anthrax? Ans 1. Maurice Hilleman	Status : Not Answered Chosen Option :
Q.32 A is a passive two-terminal electrical component that implements electric resistance as a circuit element. Ans	Status : Not Answered Chosen Option :
Q.32 A is a passive two-terminal electrical component that implements electric resistance as a circuit element. Ans	Status : Not Answered Chosen Option :
Q.32 A is a passive two-terminal electrical component that implements electric resistance as a circuit element. Ans	Status : Not Answered Chosen Option :
resistance as a circuit element. Ans	Status : Not Answered Chosen Option :
resistance as a circuit element. Ans	Status : Not Answered Chosen Option :
resistance as a circuit element. Ans	
resistance as a circuit element. Ans	
Ans 1. Maurice Hilleman	
Ans 1. Maurice Hilleman	Question ID : 8161619810
Ans 1. Maurice Hilleman	Status : Answered
Ans 1. Maurice Hilleman	Chosen Option : 3
Ans 1. Maurice Hilleman	
X 2 Edward Jenner	
2. Editard Conner	
3. Robert Koch	
✓ 4. Louis Pasteur	
	Question ID : 81616110113
	Question ID : 81616110113 Status : Answered Chosen Option : 1

Q.34 Ansupa lake is situated in	
Ans 1. Odisha	
2. Assam	
3. Uttarakhand	
4. Bihar	
	Question ID : 8161619215
	Status : Answered
	Chosen Option : 1
Q.35 A simple pendulum consists of a small metallic ball or a piece of stone rigid stand by a thread. The metallic ball is called the of the pendulum consists.	
Ans X 1. hinge	
√ 2. bob	
🗙 3. knob	
🔀 4. head	
	Question ID : 81616110103
	Status : Answered
	Chosen Option : 2
Q.36 Which of the following is NOT necessarily a part of a school laboratory	compound
microscope?	- Compound
Ans X 1. Mirror	
X 2. Objective lens	
X 3. Eye-piece	
4. Camera	
	Ouestion ID : 8161619010
	Status : Answered
	Chosen Option : 4
Q.37 With reference to computers and the internet, which of the following ap but actually produces harmful results?	ppears to be harmless
Ans X 1. Worm	
2. Trojan horse	
X 3. Patch	
🔀 4. Virus hoax	
	Question ID : 81616110087 Status : Answered
	Chosen Option : 2

Q.38	8 As of December 2020, how many RAMSAR sites does India have?		
Ans	X 1. 47		
	× 2. 38		
	X 3. 49		
	√ 4. 42		
		Question ID : 8161619607	
		Status : Answered	
		Chosen Option : 4	
Q.39	As of December 2020, Neiphiu Rio is the Chief Minister of		
Ans	X 1. Sikkim		
	✓ 2. Nagaland		
	X 3. Arunachal Pradesh		
	X 4. Manipur		
		0	
		Question ID : 8161619430 Status : Answered	
		Chosen Option : 2	
0.40	Which of the following is NOT a type of rock?		
Ans	X 1. Igneous		
	X 2. Metamorphic		
	✓ 3. Ox-bow		
	X 4. Sedimentary		
		Question ID : 8161619020 Status : Answered	
		Chosen Option : 3	
0.41	Which of the following is NOT a noble see		
Q.41 Ans	Which of the following is NOT a noble gas? 1. Argon		
	✓ 2. Boron		
	X 3. Krypton		
	× 4. Neon		
	4. Neon		
		Question ID : 8161619806	
		Status : Answered Chosen Option : 2	
		5.1000.1 0 p.110.1. 2	



Ans	
3. Breaking 4. Kabaddi Question ID: 8161619934 Status: Answered Chosen Option: 4 Q.47 Who among the following launched E-Sampada, a web portal and mobile app on Good Governance Day in December 2020? Ans 1. Prakash Javadekar 2. Narendra Singh Tomar	
Question ID: 8161619934 Status: Answered Chosen Option: 4 Q.47 Who among the following launched E-Sampada, a web portal and mobile app on Good Governance Day in December 2020? Ans 1. Prakash Javadekar 2. Narendra Singh Tomar	
Question ID: 8161619934 Status: Answered Chosen Option: 4 Q.47 Who among the following launched E-Sampada, a web portal and mobile app on Good Governance Day in December 2020? Ans 1. Prakash Javadekar 2. Narendra Singh Tomar	
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Governance Day in December 2020? Ans 1. Prakash Javadekar 2. Narendra Singh Tomar	
Ans	
2. Narendra Singh Tomar	
• 1	
3. Mahendra Nath Pandey	I
4. Hardeep S Puri	
Question ID : 81616110090	
Status : Answered Chosen Option : 1	
Chosen option: 1	
Q.48 Which of the following statements is correct?	
1. 2 members of the Lok Sabha are nominated by the Speaker of the Lok Sabha. 2. 12 members of the Rajya Sabha are nominated by the President.	
4. 2 members of the Rajya Sabha are nominated by the Chairman of the Rajya Sabha.	
Question ID : 81616110132	
Status : Answered	
Chosen Option : 2	
Q.49 The East India Company acquired a charter from the ruler of England, Queen Elizabeth I, granting it the sole right to trade with the East in the year:	
Ans	
× 2. 1800	
X 3. 1401	
X 4. 1500	
Question ID : 8161619825	$\neg \neg $
Status : Answered	
Chosen Option : 1	

	Q.50 The Radcliffe Line demarcates India's border with which of the following countries?		
Ans	· · · · · · · · · · · · · · · · · · ·		
	× 2. Nepal		
	√ 3. Pakistan		
	X 4. China		
		Question ID : 8161619921	
		Status : Answered Chosen Option : 3	
		Chosen Option . 3	
Section	on : General Engineering Mechanical		
Q.1	If there is no change in pressure at any point of the system with time, then the system is said to be in:		
Ans	★ 1. chemical equilibrium		
	× 2. thermal equilibrium		
	🔀 3. phase equilibrium		
	✓ 4. mechanical equilibrium		
	The state of the s		
		Question ID : 8161619650 Status : Answered	
		Chosen Option : 4	
Q.2	in the fuel is oxidised during knocking.		
Ans	➤ 1. Water		
	× 2. Phosphorus		
	× 3. Coal		
	✓ 4. Hydrocarbon		
		Question ID : 8161619663	
		Status : Answered Chosen Option : 4	
	8020 11320 31371 7. 122 31 122 32 No. 302210 2 22 32 32		
Q.3 Ans	If a submerged body, displaced from its equilibrium position, returns to its original pos	ition, it is called	
	1 neutral equilibrium		
	✓ 2. stable equilibrium		
	→ 3. thermal equilibrium		
	× 4. unstable equilibrium		
		Question ID : 8161619704	
		Status : Answered	
		Chosen Option : 2	

Q.4	From among the given options, Poisson's ratio is the highest for:	
Ans	X 1. wood	
	✓ 2. rubber	
	X ₃. iron	
	★ 4. copper	
		Question ID : 8161619644
		Status : Answered Chosen Option : 2
		Siloson Spinon 2
Q.5	An oil of specific gravity 0.7 is stored in a closed tank up to a height of 2 m. What will be the gauge pressure at the bottom of the tank?	
Ans		
	✓ 2. 0.014 MPa	
	★ 3. 1.4 Mpa	
	★ 4. 0.14 Mpa	
		Question ID : 8161619709
		Status : Answered
		Chosen Option : 2
Q.6	Pitot tube measures	
Ans	 1. dynamic pressure of a moving stream 	
	× 2. temperature of moving water	
	× 3. pressure difference between two fluids	
	★ 4. gauge pressure	
		Question ID : 8161619718
		Status : Answered
		Chosen Option : 1
Q.7	The tendency of material to fracture without appreciable deformation	n is called
Ans	X 1. plasticity	
	× 2. stiffness	
	✓ 3. brittleness	
	× 4. toughness	
		Question ID : 8161619643
		Status : Answered
		Chosen Option : 4

Q.8 Define free-body diagram. Ans 1. A figure that represents external forces acting on a body. 2. A diagram that represents internal forces acting on a body. 3. A free-hand sketch representing a body. 4 A diagram that only represents moments acting on a body. Question ID: 8161619443 Status: Answered Chosen Option: 2 Q.9 Which of the following assumptions is the most relevant in air-standard cycle analysis? Ans 1. All the processes within the cycle are irreversible 2. Cycle is assumed to be an open cycle ✓ 3. Working fluid is a fixed mass 4. Specific heat of air changes during the cycle Question ID: 8161619486 Status: Answered Chosen Option: 3 Air cooling is mostly preferred for . . Ans X 1. heavy trucks X 2. buses X 3. multi-utility vehicles 4. motorcycles Question ID: 8161619665 Status: Answered Chosen Option: 1 Q.11 In the context of properties of steel, which of the following statements is highly relevant? Ans 1. Presence of manganese decreases strength. **X** 2. Presence of carbon does not influence the heat-treatment process. 3. Presence of carbon contents imparts strength to iron. 4. Presence of sulphide improves corrosion resistance. Question ID: 8161619535

Status: Answered

Q.12	Two stroke engines consist of a combined process of	in a single stroke.
Ans	★ 1. suction and exhaust	
	√ 2. suction and compression	
	★ 3. suction and expansion	
	★ 4. compression and expansion	
		Ouestion ID : 8161619661
		Status : Answered
		Chosen Option : 2
Q.13	Benson boilers have water drum(s).	
Ans	✓ 1. zero	
	× 2. two	
	X 3. three	
	× 4. one	
		Question ID : 8161619677
		Status : Answered Chosen Option : 1
		Chosen option . I
Q.14	What is kinematic viscosity?	
Ans	√ 1. It is the ratio of dynamic viscosity to mass density.	
	★ 2. It is the rate of change of shear stress.	
	★ 3. It is the rate of change of shear strain.	
	★ 4. It is the ratio of dynamic viscosity to relative density.	
		Question ID : 8161619500
		Status : Answered
		Chosen Option : 1
Q.15	Determine the COP (coefficient of performance) of a heat pump if the rate of heat rejected supplied is 2 kW.	d is 360 kJ/min and power
Ans	√ 1. 3	
	× 2. 1	
	X 3. 2	
	X 4. 4	
		Question ID : 8161619654
		Status : Answered
		Chosen Option : 1

Q.16	Foaming is a phenomenon that occurs in the boiler feed water due to	
Ans	★ 1. manganese	
	× 2. sodium chloride	
	✓ 3. oil	
	★ 4. nitrogen peroxide	
		Question ID : 8161619676
		Status : Answered Chosen Option : 4
		Chosen Option . 4
Q.17	Otto cycle of a car engine consists of:	
Ans	★ 1. one adiabatic cycle only	
	× 2. one isochore cycle only	
	3 two isochore and two reversable adiabatic cy	vcles
	★ 4. four adiabatic cycles	
		Ouestion ID : 8161619453
		Status : Answered
		Chosen Option : 3
Q.18	Which of the following is NOT a part of refrigeration systems?	
Ans	★ 1. Compressor	
	× 2. Condenser	
	X 3. Evaporator	
	✓ 4. Turbine	
		Question ID : 8161619653
		Status : Answered Chosen Option : 4
		Gliosell option: 4
Q.19	Which of the following is the most widely used fuel in boilers?	
Ans	X ¹. Wood	
	× 2. Oil	
	× 3. Pulverised coal	
	✓ 4. Anthracite coal	
		Question ID: 8161619670
		Status : Answered Chosen Option : 3

Q.20	In the context of laminar flow, which of the following statements is the most appropriate?		
Ans	★ 1. Flow is always through small tanks.		
	× 2. Particles move in a turbulent order.		
	Laminar flow is observed in high viscous fluids at low velocity. 4.		
	There will be an exchange of momentum from fluid particles of one layer to another layer.		
		Question ID : 8161619511 Status : Answered	
		Chosen Option: 3	
Q.21	And the second s		
Ans	Any change in endopy could be achieved by changing		
Allo	· hear		
	× 2. acceleration		
	× 3. velocity × 4. mass		
	- mass		
		Question ID : 8161619655 Status : Answered	
		Chosen Option : 1	
Q.22	² Coated electrodes are used in		
Ans			
		Question ID : 8161619733	
		Status: Answered	
		Chosen Option : 3	
Q.23	A power plant that uses a gas turbine followed by a steam turbine for necessary power generation is known as a cycle power plant.		
Ans	X 1. topping		
	× 2. bottom		
	X ₃ generation		
	✓ 4. combined		
		Question ID : 8161619686	
		44004001101101000	
		Status : Answered Chosen Option : 4	

Q.24 Which of the following is NOT an intensive property? Ans X 1. Pressure ✓ 2. Total volume X 3. Temperature X 4. Density Question ID: 8161619649 Status: Answered Chosen Option: 2 Which of the following is not a property of an Ideal fluid. ★ 1. it is incompressible √ 2. it has Viscosity X 3. has no viscosity X 4. flow is Irrotational Question ID: 8161619715 Status: Answered Chosen Option: 2 Q.26 In high-speed aircrafts flying at high altitudes, why is cooling of the cabin required even if temperature outside is very X 1. Due to absence of solar radiation X 2. To improve fuel efficiency 3. Due to large internal heat generation X 4. Since outside pressure is very high Question ID: 8161619488 Status: Marked For Review Chosen Option: 3 Q.27 Which of the following is NOT a non-ferrous alloy? Ans X 1. Titanium X 2. Aluminium √ 3. Stainless steel X 4. Magnesium Ouestion ID: 8161619735 Status: Answered Chosen Option: 3

Q.28	28 Aqua ammonia solution used in a vapour absorption refrigeration system is a solution of ammonia in		
Ans	s X 1. CF ₃		
	√ 2. H ₂ O		
	X 3. LiBr		
	× 4. H ₂ O ₂		
		Question ID : 8161619692	
		Status : Not Attempted and Marked For Review	
		Chosen Option :	
Q.29	The splash system is NOT used to lubricate	÷	
Ans	→ 1. tappets		
	✓ 2. gear teeth and roller bearings		
	× 3. camshafts		
	× 4. piston rings		
		Question ID : 8161619664	
		Status : Answered	
		Chosen Option : 2	
	The device which transfers energy from the to the is known as hydraulic turbine.		
Q.30	The device which transfers energy from the to the is known	as hydraulic turbine.	
Q.30 Ans	The device which transfers energy from the to the is known value of the fluid; rotor	as hydraulic turbine.	
		as hydraulic turbine.	
	✓ 1 fluid; rotor	as hydraulic turbine.	
	1 fluid; rotor2 fluid; atmosphere	as hydraulic turbine.	
	 ✓ 1. fluid; rotor X 2. fluid; atmosphere X 3. atmosphere; fluid 		
	 ✓ 1. fluid; rotor X 2. fluid; atmosphere X 3. atmosphere; fluid 	Question ID : 8161619726 Status : Marked For Review	
	 ✓ 1. fluid; rotor X 2. fluid; atmosphere X 3. atmosphere; fluid 	Question ID : 8161619726	
Ans	 ✓ 1. fluid; rotor X 2. fluid; atmosphere X 3. atmosphere; fluid 	Question ID : 8161619726 Status : Marked For Review Chosen Option : 2	
Ans	 ✓ 1. fluid; rotor X 2. fluid; atmosphere X 3. atmosphere; fluid X 4. rotor; fluid 	Question ID : 8161619726 Status : Marked For Review Chosen Option : 2	
Ans	 ✓ 1. fluid; rotor X 2. fluid; atmosphere X 3. atmosphere; fluid X 4. rotor; fluid Within a refrigeration system, the expansion valve is incorporated be 	Question ID : 8161619726 Status : Marked For Review Chosen Option : 2	
Ans	 ✓ 1. fluid; rotor X 2. fluid; atmosphere X 3. atmosphere; fluid X 4. rotor; fluid Within a refrigeration system, the expansion valve is incorporated be X 1. super-heater and sub-cooler 	Question ID : 8161619726 Status : Marked For Review Chosen Option : 2	
Ans	 ✓ 1. fluid; rotor X 2. fluid; atmosphere X 3. atmosphere; fluid X 4. rotor; fluid Within a refrigeration system, the expansion valve is incorporated be X 1. super-heater and sub-cooler X 2. compressor and condenser 	Question ID : 8161619726 Status : Marked For Review Chosen Option : 2	
Ans	 ✓ 1. fluid; rotor X 2. fluid; atmosphere X 3. atmosphere; fluid X 4. rotor; fluid Within a refrigeration system, the expansion valve is incorporated be X 1. super-heater and sub-cooler X 2. compressor and condenser ✓ 3. condenser and evaporator 	Question ID : 8161619726 Status : Marked For Review Chosen Option : 2	
Ans	 ✓ 1. fluid; rotor X 2. fluid; atmosphere X 3. atmosphere; fluid X 4. rotor; fluid Within a refrigeration system, the expansion valve is incorporated be X 1. super-heater and sub-cooler X 2. compressor and condenser ✓ 3. condenser and evaporator 	Question ID : 8161619726 Status : Marked For Review Chosen Option : 2 etween the Question ID : 8161619688 Status : Answered	
Ans	 ✓ 1. fluid; rotor X 2. fluid; atmosphere X 3. atmosphere; fluid X 4. rotor; fluid Within a refrigeration system, the expansion valve is incorporated be X 1. super-heater and sub-cooler X 2. compressor and condenser ✓ 3. condenser and evaporator 	Question ID : 8161619726 Status : Marked For Review Chosen Option : 2 etween the Question ID : 8161619688	

Q.32	is useful for measuring flow of a conducting fluid.	
Ans	X 1. Rotameter	
	✓ 2. Electro-magnetic flow meter	
	X 3. Vane meter	
	★ 4. Orifice meter	
		Question ID : 8161619722
		Status : Answered
		Chosen Option : 1
Q.33	What was the first refrigerant used in continuous refrige	eration system?
Ans	X ¹. Ammonia	
	× 2. Carbon dioxide	
	✓ 3. Water	
	X 4. Air	
		Question ID : 8161619494
		Status : Answered
		Chosen Option : 1
Q.34	The efficiency of an ideal diesel engine does NOT directly de	epend on
Ans	★ 1. the cut-off ratio	
	× 2. the compression ratio	
	X 3. the isentropic index → 3. the isentropic index	
	✓ 4. the fluid pressure	
		Outpution ID : 0161610657
		Question ID : 8161619657 Status : Answered
		Chosen Option : 4
Q.35	Fusible plug is generally made up of an alloy (gunmetal) which consists of co	opper, tin and
Ans	× 1. aluminium	
	✓ 2. zinc	
	X 3. cast iron	
	× 4. manganese	
		Question ID : 8161619680
		Status : Answered
		Chosen Option : 2

Q.36	Which of the following is NOT a part of the Rankine cycle?	
Ans	✓ 1. Compressor	
	× 2. Turbine	
	× 3. Pump	
	X ⁴. Boiler	
	Question ID : Status : Chosen Option :	Answered
Q.37	The flash chamber in the single stage VCR cycle serves to	
Ans	Ans X 1. decrease the refrigerating effect	
	× 2. decrease the compression ratio	
	✓ 3. increase the refrigerating effect	
	★ 4. increase the compression ratio	
	Question ID : 3 Status : A Chosen Option : 3	Answered
Q.38	In the Rankine cycle, the fluid which enters the boiler is:	
Ans	Ans X 1. steam	
	× 2. mercury	
	✓ 3. water	
	× 4. oxygen	
	Question ID : Status : A Chosen Option : S	Answered
Q.39	A capillary tube is employed in a refrigeration cycle to	
Ans	Ans X 1. produce a cooling effect	
	√ 2. reduce pressure of the refrigerant	
	★ 3. control temperature of the refrigerated space	
	★ 4. control flow of the refrigerant	
	Question ID : 8 Status : A Chosen Option : 4	Answered

Q.40	*** 1.00 1.		
Ans	• Commess		
	× 2. Brittleness		
	× 3. Toughness		
	× 4. Resilience		
	Question ID : 8161619639	٦	
	Status : Answered		
	Chosen Option : 1		
Q.41	A ball and socket joint is an example of a pair.		
Ans	✓ 1. spherical		
	× 2. turning		
	× 3. rolling		
	X 4. screw		
	Question ID : 8161619437	7	
	Status : Answered		
	Chosen Option : 1		
Q.42	Smoke emitting from a lighted cigarette represents		
Ans	× 1. Point		
	× 2. streamline		
	✓ 3. streakline		
	× 4. pathline		
		_	
	Question ID : 8161619714 Status : Answered		
	Chosen Option : 3		
Q.43	Which of the following equipment gives direct reading of fluid flow rates?		
Ans	X 1. Hot wire anemometer		
	✓ 2. Rotameter		
	× 3. Nutating disk flow meter		
	× 4. Orifice meter		
	Question ID : 8161619721		
	Status: Not Attempted and Marked For Review		
	Chosen Option :		

Q.44	.44 If the gauge pressure of air in a cylinder is 250 kPa, then it's absolute pressure will be	
Ans	⁵	
	X 3. 450 kPa	
	√ 4. 350 kPa	
		Question ID : 8161619708
		Status : Answered
		Chosen Option : 4
Q.45	is NOT a water tube boiler.	
Ans	★ 1. Stirling boiler	
	✓ 2. Scotch Marine boiler	
	★ 3. Babcock-Wilcox boiler	
	★ 4. Benson boiler	
		Question ID : 8161619672
		Status : Answered
		Chosen Option : 2
Q.46	In the context of roto-dynamic machines, which of the following sta	tements is correct?
Ans	√ 1.	
	There will be a relative motion between the rotor vane	s and the fluid.
	2. While flowing through the stator, linear momentum	a changes
	★ 3. Linear momentum is the direction normal to	
	 Linear momentum is the direction normal to Linear momentum is normal to the stator. 	the rotor.
	Linear momentum is normal to the stator.	
		Question ID: 8161619526
		Status : Not Attempted and Marked For Review
		Chosen Option :
Q.47	A two-stroke engine consists of port(s).	
Ans	× 1. three	
	× 2. one	
	× 3. four	
	✓ 4. two	
		Question ID : 8161619662
		Status : Answered
		Chosen Option : 1

Q.48	For a steady flow, the values of all fluid properties at any fixed point	
Ans	 1. change with location ✓ 2. do not change with time X 3. do not change with location X 4. change with time 	
		Question ID : 8161619710 Status : Answered Chosen Option : 2
Q.49	Viscous forces are NOT available in .	
Ans	× 1. rotational flow	
	× 2. laminar flow	
	X 3. transitional flow	
	√ 4. irrotational flow	
		Question ID : 8161619713 Status : Answered Chosen Option : 4
Q.50	Which of the following does NOT represent a unit	of viscosity?
Ans	X 1. Stoke	or viscosity.
	× 2. m ² /sec	
	✓ 3. N-m/sec	
	× 4. Poise	
		Question ID : 8161619716 Status : Answered Chosen Option : 3
Q.51	Variation of stress with strain rate for a Newtonian f	luid is .
Ans	✓ 1. linear	ergy open august o
	× 2. elliptical	
	X 3. parabolic	
	X 4. hyperbolic	
		Question ID : 8161619717 Status : Answered Chosen Option : 1

Q.52	Those pumps employed for mud related work have	_type of impeller.
Ans	X 1 a double-suction	
	× 2. a one-side shrouded	
	√ 3. an open	
	X 4. a two-side shrouded	
		Question ID : 8161619728
		Status : Answered
		Chosen Option : 3
Q.53	In which of the following types of compressors are the motor and compressor enclosed	osed in the same housing?
Ans	★ 1. Axial flow type compressor	
	★ 2. Reciprocating compressor	
	✗ 3. Open-type compressor	
	✓ 4. Hermetic compressor	
		Question ID : 8161619483
		Status : Answered
		Chosen Option : 4
Q.54	The Babcock-Wilcox boiler is classified as a water tub	e boiler because:
Ans	★ 1. it has a large reservoir of water at the botton	n
	✓ 2. water passes through the tube and hot gases	around
	× 3. water passes around the tubes having hot ga	nses
	× 4. water heater is mounted on the boiler itself	
		Question ID : 8161619673
		Status : Answered
		Chosen Option : 2
Q.55	The density of fluid does NOT affect the working	of
Ans	X 1₁ an orifice meter	
	× 2. a rotameter	
	× 3. a nozzle meter	
	√ 4. an electro-magnetic flow meter	
		Question ID : 8161619723
		Status : Answered
		Chosen Option : 4

Q.56 When two elements of a pair are connected such that they can only turn about a fixed axis of another element, they are Ans X 1. a spherical pair 2. a turning pair X 3. a screw pair X 4. a sliding pair Ouestion ID: 8161619637 Status: Answered Chosen Option: 2 Q.57 Which of the following statements is correct about a Benson boiler? Ans X 1. Flue gases pass only in one direction × 2. Air is sent through the same direction √ 3. There is no recirculation of water X 4. Steam is sent out in multiple directions Question ID: 8161619675 Status: Answered Chosen Option: 3 Q.58 The function of a carburetor in internal combustion engines is: Ans √ 1. to Maintain air-fuel ratio X 2. to control fuel alone X 3. to control air alone X 4. to cool exhaust gases Question ID: 8161619660 Status: Answered Chosen Option: 1 Q.59 Which of the following is NOT a unit of pressure? Ans 🗸 1. Joule X 2. N/m² X 3. Bar X 4. Pa Ouestion ID: 8161619707 Status: Answered Chosen Option: 1

Q.60	Nozzles used in steam turbines convert	
Ans	★ 1. pressure energy into work	
	× 2. enthalpy of steam into pressure energy	
	★ 4. enthalpy of steam into work	
		Overstion ID - 0464640606
		Question ID : 8161619696 Status : Answered
		Chosen Option : 3
Q.61	falls under the category of a water tube bo	ile <mark>r.</mark>
Ans	★ 1. Locomotive boiler	
	× 2. Cornish boiler	
	√ 3. LaMont boiler	
	★ 4. Lancashire boiler	
		Question ID : 8161619674
		Status : Answered Chosen Option : 3
Q.62	For a refrigerating machine, capacity is expressed	as
Ans	✓ 1. rate of heat extraction from the space being	cooled
	× 2. gross weight of the machine	
	★ 3. inside volume of the cabinet	
	★ 4 the lowest temperature attained	
		Question ID : 8161619694
		Status : Answered Chosen Option : 1
		Chosen Option: 1
Q.63	Stoke is another unit of:	
Ans	X 1. shear stress	
	× 2. dynamic viscosity	
	√ 3. kinematic viscosity	
	★ 4. velocity gradient	
		Question ID : 8161619701
		Status : Answered Chosen Option : 3
		Chosen Option . 3

Q.64	Impact load is an example of:	
Ans	★ 1. uniform load	
	× 2. static load	
	✓ 3. dynamic load	
	★ 4. fatigue load	
		Question ID : 8161619441
		Status : Answered Chosen Option : 4
		Chosen Option . 4
	If the relationship between shear stress of a fluid is NOT linear to the velocity gra	dient, then the fluid is:
Ans	X 1. a compressible fluid	
	✓ 2. a non-Newtonian fluid	
	X 3. an ideal fluid	
	× 4. a Newtonian fluid	
		Question ID : 8161619700 Status : Answered
		Chosen Option : 2
Q.66	Lancashire boiler has flue tube(s), whereas Cornish boiler has	flue tube(s).
Ans	× 1. 1; 2	
	✓ 2. 2; 1	
	× 3. 2; 2	
	X 4. 3; 2	
		Question ID : 8161619678
		Status : Answered
		Chosen Option : 2
Q.67	The compression ratio in ideal air standard cycles i	s the ratio of:
Ans	★ 1. maximum pressure to minimum pressure	
	✓ 2. maximum volume to minimum volume	
	× 3. minimum pressure to maximum pressure	
	X 4. minimum volume to maximum volume	
		Question ID : 8161619658
		Status : Answered Chosen Option : 2

Q.68	For a given centrifugal pump, discharge varies with speed.	
Ans	★ 1. inversely	
	✓ 2. linearly	
	X 3. square root of	
	X 4. fifth power of	
		Question ID : 8161619729
		Status : Answered
		Chosen Option : 2
Q.69	What is ductility in steel?	
Ans	★ 1. Stress at yield stress	
	× 2. Ratio of change in length to original length	
	X 3. Ratio of ultimate stress to yield stress	
	√ 4. Amount of strain a material can withstand be	efore fracture
		Question ID : 8161619532
		Status : Answered Chosen Option : 4
		·
	In flow measurement, a Venturi meter is preferred over an orifice plate because	
		ate because
Q.70 Ans	★ 1. pressure drop is more	ate because
	✗ 1. pressure drop is more✗ 2. it is cheaper	ite because
	 X 1. pressure drop is more X 2. it is cheaper ✓ 3. energy or head loss is less 	ite because
	✗ 1. pressure drop is more✗ 2. it is cheaper	ite because
	 X 1. pressure drop is more X 2. it is cheaper ✓ 3. energy or head loss is less 	Question ID : 8161619720
	 X 1. pressure drop is more X 2. it is cheaper ✓ 3. energy or head loss is less 	
Ans	 X 1. pressure drop is more X 2. it is cheaper ✓ 3. energy or head loss is less X 4. space is limited 	Question ID : 8161619720 Status : Answered
	 X 1. pressure drop is more X 2. it is cheaper ✓ 3. energy or head loss is less X 4. space is limited In a Pelton wheel, jet ratio values are	Question ID : 8161619720 Status : Answered
Ans	 X 1. pressure drop is more X 2. it is cheaper ✓ 3. energy or head loss is less X 4. space is limited In a Pelton wheel, jet ratio values are X 1. less than 1	Question ID : 8161619720 Status : Answered
Ans	 X 1. pressure drop is more X 2. it is cheaper ✓ 3. energy or head loss is less X 4. space is limited In a Pelton wheel, jet ratio values are	Question ID : 8161619720 Status : Answered
Ans	 X 1. pressure drop is more X 2. it is cheaper ✓ 3. energy or head loss is less X 4. space is limited In a Pelton wheel, jet ratio values are X 1. less than 1 X 2. between 2 and 5 	Question ID : 8161619720 Status : Answered
Ans	 X 1. pressure drop is more X 2. it is cheaper ✓ 3. energy or head loss is less X 4. space is limited In a Pelton wheel, jet ratio values are X 1. less than 1 X 2. between 2 and 5 ✓ 3. more than 6 	Question ID : 8161619720 Status : Answered Chosen Option : 3
Ans	 X 1. pressure drop is more X 2. it is cheaper ✓ 3. energy or head loss is less X 4. space is limited In a Pelton wheel, jet ratio values are X 1. less than 1 X 2. between 2 and 5 ✓ 3. more than 6 	Question ID : 8161619720 Status : Answered

Q.72 Draught is produced in locomotive boilers by which of the following components? X 1. Chimney X 2. Locomotion √ 3. Steam jet X 4. Centrifugal fan Question ID: 8161619671 Status: Answered Chosen Option: 3 Q.73 Define thermodynamics. X 1. It deals with dynamics under thermal conditions. X 2. It is a science which deals with work done. It is a science which deals with the relation between work and properties of systems. **4**. It is a science which deals with the relation between heat, work and properties of systems. Question ID: 8161619449 Status: Answered Chosen Option: 4 Q.74 The reversed _____ cycle is employed for passenger aircraft systems. Ans X 1. Carnot X 2. Ericsson X 3. Atkinson 4. Brayton Question ID: 8161619695 Status: Answered Chosen Option: 4 Q.75 valves are provided in reciprocating compressors. X 1. Simply supported ✓ 2. Plate X 3. Poppet X 4. Solenoid Question ID: 8161619684 Status: Not Attempted and **Marked For Review** Chosen Option: --

The maximum temperature in case of internal combustion engines is obtained at		
★ 1. end of the compression process		
√ 2. start of the expansion process		
★ 3. end of the expansion process		
★ 4. start of the compression process		
Oue	estion ID : 8161619659	
	Status : Answered	
Choser	n Option : 1	
Q.77 The modern Francis turbine is a flow turbine.		
Ans 🗸 1. mixed		
× 2. tangential		
X ^{3.} radial		
× 4. axial		
Que	estion ID : 8161619724	
Chapter	Status : Answered	
Choser	n Option : 1	
Q.78 Flow velocity at the throat of a converging-diverging nozzle is, when designed for maximum discharge.		
Ans 1 sonic		
× 2. hypersonic		
× 3. sub-sonic		
★ 4. supersonic		
Que	estion ID : 8161619698	
Choser	Status : Answered n Option : 1	
Choser	- Option - I	
Q.79 The value of quality or dryness fraction of a substance in saturated liquid-vapour mixture is		
Ans X 1. 0		
★ 2. 2★ 3. 1		
✓ 4. between 0 and 1		
• " Detween 0 and 1		
Que	estion ID : 8161619645 Status : Answered	
Choser	n Option : 4	
	I	

Q.80 Ans	Uniform flow is the type of flow wherein velocity at any given time	_ with respect to space.
70	✓ 1. Does not change	
	× 2. Changes	
	X 3. Increases	
	X 4. Decreases	
		Question ID : 8161619712
		Status : Answered Chosen Option : 1
Q.81	If the oil viscosity increases, then the wear loss	<u>.</u>
Ans	★ 1. remains the same	
	× 2. becomes zero	
	√ 3. decreases	
	× 4. increases	
		Question ID : 8161619666
		Status : Answered
		Chosen Option : 3
	For a 2 m deep swimming pool, pressure difference between the top and the bottom	of the pool iskPa.
Ans	X 1. 22	
	X 2. 12	
	✓ 3. 19.6 × 4. 11	
	4. 11	
		Question ID : 8161619646
		Status : Answered Chosen Option : 3
0.00	SECTION AND AND ADDRESS OF THE SECTION AS A SECTION	
Q.83	Fusible plug in a steam boiler is placed	
Ans	✓ 1. at the crown of the furnace	
	★ 2 below the water level indicator	
	★ 3. at the fire grate of the boiler	
	× 4. near the manhole	
		Question ID : 8161619679
		Status : Answered
		Chosen Option : 1

Q.84	Which of the following processes is NOT part of an ic	deal Otto cycle?
Ans	1. Heat addition at constant pressure	
	Y 2. Heat addition at constant volume	
	★ 3. Isentropic compression	
	X 4 Isentropic expansion	
		Question ID : 8161619656
		Status : Answered
		Chosen Option : 1
Q.85	The moisture content of steam at the turbine exit of a steam power plant operating on decreased by:	the Rankine cycle can be
Ans	★ 1. decreasing boiler pressure	
	× 2. increasing boiler pressure	
	✓ 3. reheating steam	
	★ 4. super cooling steam	
		Question ID : 8161619669
		Status : Answered
		Chosen Option : 3
	For a floating body, if the metacentre is below the centre of gravity, then the body is said to	be in equilibrium.
Ans	X 1. neutral	
	× 2. stable	
	✓ 3. unstable X 4. thermal	
	thermal	
		Question ID : 8161619705 Status : Answered
		Chosen Option : 3
Q.87	Chaplets are used in	
Ans	× 1. welding	
	× 2. extrusion	
	✓ 3. casting	
	★ 4. forging	
		Ouestion ID : 8161619732
		Status : Answered
I		Chosen Option : 3
		Silosaii Spiidii V

Q.88	CANNOT be classified as inversion(s) of a single-slider	crank mechanism.
Ans	★ 1. Whitworth quick-return mechanism	
	X 2. Crank and slotted-lever mechanism	
	✗ 3. Oscillating cylinder engine	
	✓ 4. Elliptical trammel	
		Ouestion ID : 8161619638
		Status : Answered
		Chosen Option : 4
Q.89	is used for pumping water into a boiler.	
Ans	X 1. Rotor	
	✓ 2. Feed pump	
	✗ 3. Duplex pump	
	× 4. Economiser	
		Question ID : 8161619681
		Status : Answered Chosen Option : 2
		Silsten Option: 2
Q.90	Where is air cycle refrigeration commonly used?	
Ans	★ 1 Car air conditioning	
	★ 2. Domestic refrigerator	
	✓ 3. Aircraft conditioning	
	★ 4. Cold storage	
		Question ID : 8161619492
		Status : Answered
		Chosen Option : 3
Q.91	Compounding of a steam turbine is done to	2
Ans	★ 1 reduce the blade friction	
	★ 2. balance the rotor	
	× 4. connect the shaft	
		Question ID : 8161619697
		Status : Answered Chosen Option : 3
		<u> </u>

Q.92	Pressure measurement is done by, by measuring heat loss from a heated wire.	
Ans	✓ 1. a Pirani gauge	
	× 2. an orifice meter	
	× 3. a manometer	
	× 4. a barometer	
		Question ID : 8161619706
		Status : Answered
		Chosen Option : 1
Q.93	The flow in volute casing outside the rotating impeller of a cer	ntrifugal pump is:
Ans	× 1. axial flow	
	× 2. free vortex flow	
	★ 3. forced vortex flow	
	✓ 4. radial flow	
		Question ID : 8161619730
		Status: Answered
		Chosen Option : 2
Q.94	If the specific gravity of oil is 0.7, then its density in kg/m ²	will be
Ans	× 1. 70	
	√ 2. 700	
	X 3. 7	
	★ 4. 7000	
		Question ID : 8161619702
		Status : Answered
		Chosen Option : 2
Q.95	When hot air exhausting from the turbine is used to heat up the compressor exit flow	, it is known as
Ans	➤ 1. intracooling	
	× 2. re-evaporating	
	√ 3. regeneration	
	★ 4. intercooling	
		Question ID : 8161619683
		Status : Answered
		Chosen Option : 3

Q.96	Which of the following statements is more relevant in the context?			
Ans	1. Metacentric height is positive in case of unstable equilibrium.			
	✓ 2. The centre of buoyancy in a submerged body remains unchanged			
	The centre of buoyancy in a submerged body remains unchanged.			
	If center of gravity is below the centre of buoyancy, the b	pody is unstable.		
	X 4.			
	When the body is fully submerged, shape of the displaced fluid alters when the body is tilted.			
		Question ID : 8161619504 Status : Answered		
		Chosen Option : 4		
Q.97	A dood waight tester is used widely for			
Ans	A dead weight tester is used widely for			
	1. producing high pressures			
	2. testing magnitude of the given weight			
	✓ 3. calibration of other equipment			
	× 4. accurate measurement of loads			
		Question ID : 8161619719 Status : Marked For Review		
		Chosen Option : 3		
Q.98	If Value of dryness fraction is 0, it indicates that working fl	nid is at		
Ans	✓ 1. saturated liquid			
	× 2. saturated vapour			
	➤ 3. superheated vapour			
	× 4. compressed liquid			
	Compressed figure			
		Question ID : 8161619647 Status : Answered		
		Chosen Option: 1		
Q.99	Internal energy associated with kinetic energy of molec	rules is .		
Ans	★ 1. nuclear energy	on the consequence of the conseq		
	× 2. chemical energy			
	✓ 3. sensible energy			
	X ₄ latent energy			
	Secretaria de la contractica del la contractica del la contractica de la contractica	Ougation ID : 044440554		
		Question ID : 8161619651 Status : Answered		
		Chosen Option : 3		

).100	Percentage elongation measured during tensile testing indicates
Ans	× 1. malleability
	× 2. creep
	√ 3. ductility
	× 4. fatigue strength
	Question ID: 8161619641 Status: Answered
	Chosen Option: 3