Instructions

For the following questions answer them individually

Question 1

In a certain code language, pink is called wood, wood is called Pen, Pen is called colour and colour is called brown. In this language, which of the following is used for writing?

A   Pink

B   Brown

C   Pen

D   Colour

> **Answer:** D

Question 2

Select the option that is related to the third number in the same way as the second number is related to the first number.
428 : 717 :: 236 : ?

A   713

B   349

C   339

D   249

> **Answer:** C

Question 3

Select the option that is related to the third term in the same way as the second term is related to the first term.
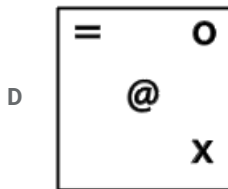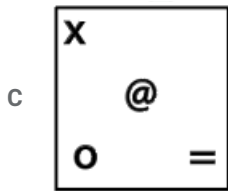Field : Farmer :: Observatory : ?

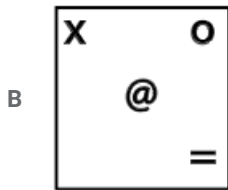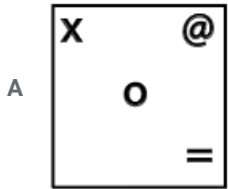A   Telescope

B   Astronomer

C   Astronaut

D   Stars

> **Answer:** B

Question 4

Select the figure that can replace the question mark (?) in the following series.

X	O	=	@ X	
	X	O	=	?
		X	O	

A

B

C

D

Answer: B

Question 5

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 dancers are singers.
2.No singer is an actor.
Conclusions:
I. Some actors are singers.
II. All singers are dancers.

A   Neither conclusion I nor II follows

B   Only conclusion I follows

C   Either conclusion I or II follows

D   Only conclusion II follows

Answer: A

Question 6

In a certain code language, GOURD is written as 21-4-5-10-24. How will BRINJAL be written in the same code language?

A   2-10-3-14-18-1-12

B   26-10-3-14-18-1-16

C 26-10-5-14-18-2-16

D 25-9-3-14-18-1-15

Answer: B

Question 7

Rishabh starts walking towards west. After walking 70 m he turns to left and walks 35 m straight. He turns left again and walks 30 m, again he turns to the left and walks a distance of 35 m. How far is he from the starting point?
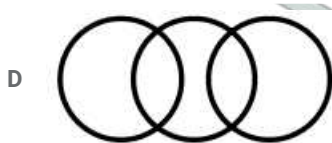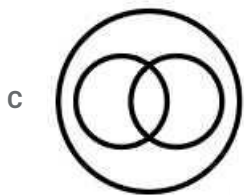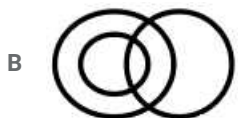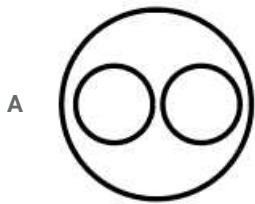
A 60 m

B 100 m

C 70 m

D 40 m

Answer: D

Question 8

Select the Venn diagram that best represents the relationship between the following classes.
Males, Fathers, Accountants

A

B

C

D

Answer: B

Question 9

Select the option that is related to the third term in the same way as the second term is related to the first term.
NEEDLE : MFDEKF :: BUCKET : ?

A AVBLDS

B AVBLDU

C CVDLFS

D CVBLDU

Answer: B

Question 10

Select the figure that can replace the question mark (?) in the following series.

@ X	X @	X@	X @	?

A
@

X

B
@

X

C
X

@

D
@

X
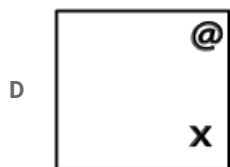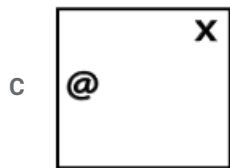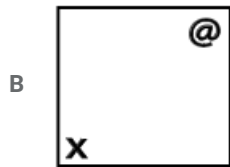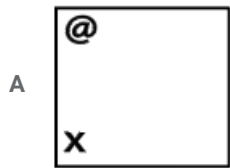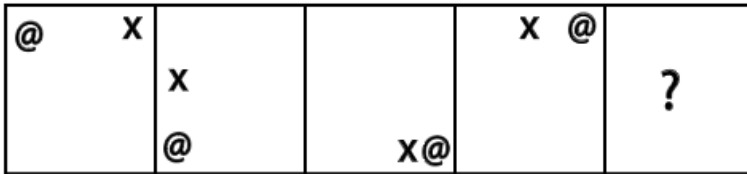
Answer: A

Question 11

Select the correct combination of mathematical signs to replace * signs and to balance the following equation.
(9 * 8 * 7) * 13 * 5

A $\times, =, \div, -$

B $\times, -, \div, =$

C $\div, -, =, \times$

D $-, \div, \times, =$

Answer: B

Question 12

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

A

B

C

D
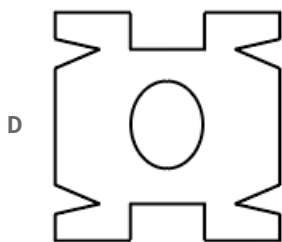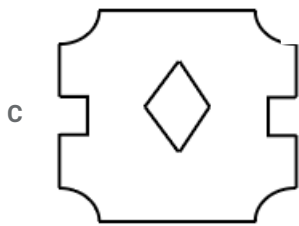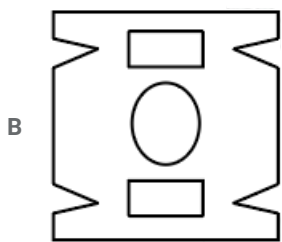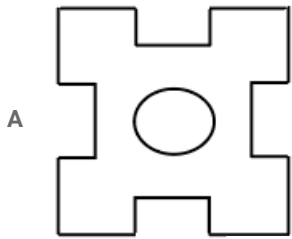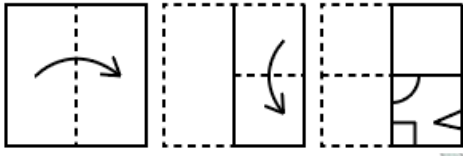
Answer: D

Question 13

Mayank started driving from his office to the hotel. He drove 10 km towards north. From there, he turned right and drove 8 km. Then, he turned right and drove 6 km. Again, he turned right and drove 5 km and reached his hotel. What is the shortest distance from the office to his hotel?

A   5 km

B   9 km

C   2 km

D   6 km

Answer: A

Question 14

From the given options, select the figure which is embedded in the following figure (rotation is NOT allowed).

A

B

C

D
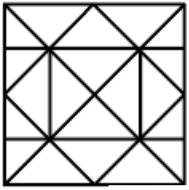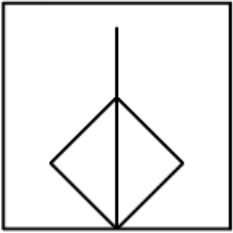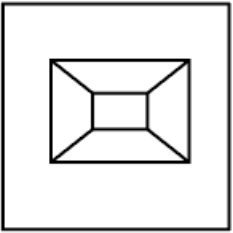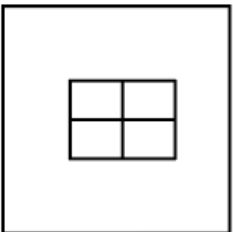
Answer: B

Question 15

Four words have been given out of which three are alike in some manner, while one is different. Choose the odd one.

A   Melon

B   Apple

C   Rose

D   Orange

Answer: C

Question 16

Arrange the following words in the order in which they appear in an English dictionary.
1. Piquant
2. Pierce
3. Patent
4. Perjury
5. Pasture

A   5, 3, 4, 2, 1

B   5, 3, 4, 1, 2

C   3, 4, 5, 1, 2

D   3, 5, 4, 1, 2

Answer: A

Question 17

Select the number that can replace the question mark (?) in the following series.
105, 107, 103, ?, 101, 111

A   102

B   97

C   113

D   109

Answer: D

Question 18

Read the given statement and conclusions carefully and decide which of the conclusions logically follow(s) from the statement.
Statement:
"On October 2, let us pledge to make the country free of single-use plastic."- Prime Minister of India
Conclusions:
I. All Indians should reduce and then completely eliminate the consumption of single-use plastic like packaged drinking water
II. India is going to be completely plastic free on October 2

A   Only conclusion I follows

B   Both conclusions I and II follow

C   Only conclusion II follows

D   Neither conclusion I nor II follows

Answer: A

Question 19

'Needle' is related to 'Sew' in the same way as 'Microscope' is related to '_____'.

A   Lens

B   Laboratory

C Magnify

D Science

Answer: C

Question 20

If the given figure is folded to form a cube, which sign will come opposite '+'?

@	*	$
	#	
	%	
	+	

A $

B @

C %

D #
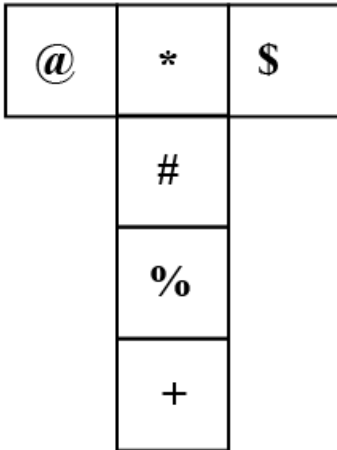
Answer: D

Question 21

Select the option that is related to the fourth term in the same way as the first term is related to the second term.
ULJ : POO :: ? : KRT

A PIO

B FMO

C FIY

D PIY

Answer: A

Question 22

Select the letter that can replace the question mark (?) in the following series.
K, I, G, E, C, ?

A A

B B

C D

D Z

Answer: A

Question 23

Which two signs need to be interchanged to make the following equation correct?

$32 - 8 \div 4 + 5 \times 6 = 30$

A $\times \, and +$

B $\times \, and \div$

C $\div \, and -$

D $\div \, and +$

Answer: C

Question 24

Four groups of numbers have been given, out of which three are alike in some manner and one is different. Select the group that is different.

A 632 : 325 : 236

B 561 : 615 : 165

C 289 : 829 : 928

D 426 : 642 : 246

Answer: A

Question 25

Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the one that is different.

A 48 - 81

B 64 - 100

C 25 - 36

D 16 - 49

Answer: A

Question 26

Select the number that can replace the question mark (?) in the following series.

40, 44, 22, 26, 13, ?

A 16

B 20

C 17

D 22

Answer: C

Question 27

Which of the given options would be a meaningful ascending order of the following words?
1.Star
2.Satellite
3.Galaxy
4.Planet
5.Universe

A 5, 1, 3, 2, 4

B 3, 1, 5, 2, 4

C 2, 1, 5, 3, 4

D 5, 3, 1, 4, 2

Answer: D

Question 28

Select the option in which the number set shares the same relationship as that shared by the given number set.
(101, 106, 131)

A (29, 34, 39)

B (123, 128, 153)

C (170, 202, 137)

D (419, 424, 437)

Answer: B

Question 29

Study the given pattern carefully and select the number that can replace the question mark (?)in it.

4	18	23
19	330	?
3	6	1

A 350

B 530

C 529

D 550

Answer: B

Question 30

Four words have been given out of which three are alike in some manner, while one is different. Choose the odd one.

A   Thesaurus

B   Dictionary

C   Book

D   Encyclopaedia

Answer: C

Question 31

Select the number that can replace the question mark (?) in the following series.
1, 11, 35, 79, ?, 251

A   152

B   149

C   105

D   150

Answer: B

Question 32

Select the letter-cluster that can replace the question mark (?) in the following series.
TXB, QWE, NVH, KUK, ?

A   ITM

B   HSN

C   JTM

D   HTN

Answer: D

Question 33

Which of the options is the exact mirror image of the given figure when the mirror is held at the right side?

A

B

C

D
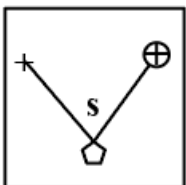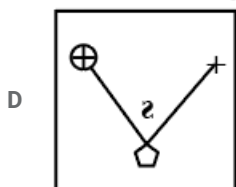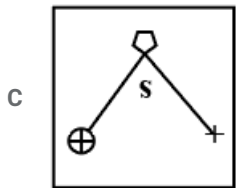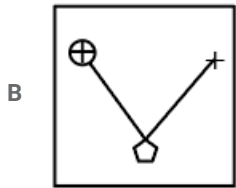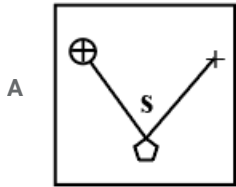
Answer: D

Question 34

If W = 46, BAT = 46, then 'LAMB' will be equal to:

A   54

B   56

C   52

D   28

Answer: B

Question 35

If in a certain code, HORSE is written as GINPQSRTDF, How will JOCKEY be written in that language?

A   KIPNBDJLDFXZ

B   IKNPBDJLDFXZ

C   KINPBDJLDFZX

D   IKNPDBJLFDZX

Answer: B

Question 36

If $+$ means $-$, $-$ means $\times$, $\times$ means $\div$, and $\div$ means $+$, then what will be the value of following expression?

$12 - 3 + 15 \times 5 \div 6 =$?

A   42

B   33

C   40

D   39

Answer: D

Question 37

Four groups of numbers have been given, out of which three are alike in some manner and one is different. Select the group that is different.

A   17 : 102 : 204

B   12 : 72 : 144

C   14 : 90 : 180

D   26 : 156 : 312

Answer: C

Question 38

Which of the options is the exact mirror image of the given figure when the mirror is held at the right side?

jsVR72k59moPG

A   Ɔꟼom 92ꓘ2Tꓤ∨�

B   ¡2∨ꓤTꓘ2Ɛ9moꟼƆ

C   Ɔꟼom92ꓘ2Tꓤ∨2į

D   Ɔꟼom92ꓘ2Tꓤ∨2į

Answer: C

Question 39

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

19 : 23 :: 11 : 13 :: 7 : ?

A   3

B   5

C 9

D 11

Answer: D

Question 40

Select the option in which the numbers share the same relationship as that shared by the given pair of numbers
56 - 63

A 154 - 171

B 104 - 117

C 134 - 153

D 28 - 39

Answer: B

Question 41

Select the Venn diagram that best represents the relationship between the following classes.
Star, Sun, Polaris

A

B

C

D
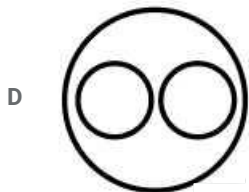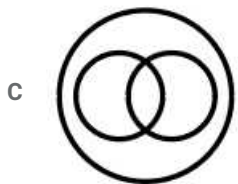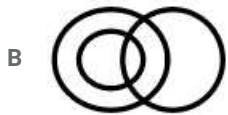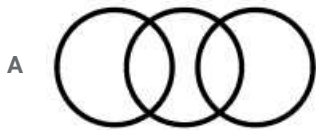
Answer: D

Question 42

Select the figure that can replace the question mark (?) in the following series.

<	*	*	0	0	+	+	?	
0	c	+	<	?	*	>	0	?

A

```
?        +

=        >
```

B

```
=        >

?        +
```

C

```
?        >

=        +
```

D

```
?        >

0        =
```
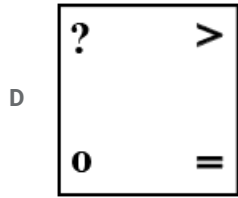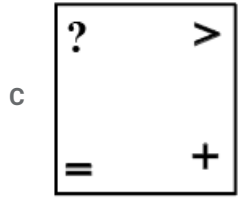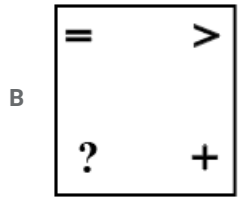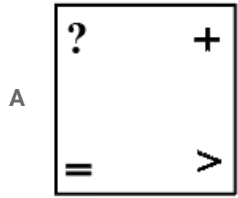
Answer: C

Question 43

How many triangles are present in the given figure?
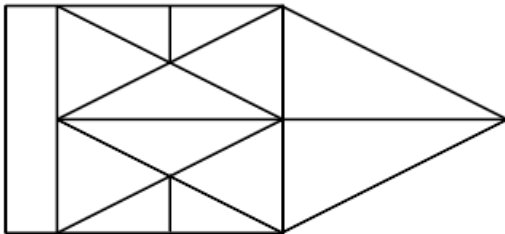
A   17

B   26

C   28

D   27

Answer: D

Question 44

In the given Venn diagram, the triangle represents politicians, the circle represents lawyers, the rectangle represents teachers and the square represents businessmen. The numbers given in the diagram represent the number of persons of that particular category.
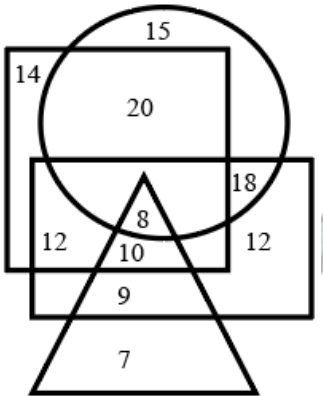
How many lawyers are also teachers, but are neither politicians nor businessmen?

A   10

B   7

C   18

D   12

Answer: C

Question 45

Select the option in which the words share the same relationship as that shared by the given pair of words.
Players : Team

A   Class : Students

B   Flowers : Bouquet

C   Grapes : Dozen

D   Band : Musician

Answer: B

Question 46

Select the option in which the words share the same relationship as that shared by the given pair of words.
Touch : Push

A   Speak : Shout

B   Refuse : Accept

C   Run : Walk

D   Eat : Drink

Answer: A

Question 47

From the given options, select the figure which is embedded in the following figure (rotation is NOT allowed).

A

B

C

D
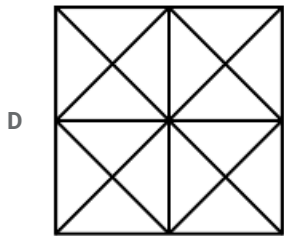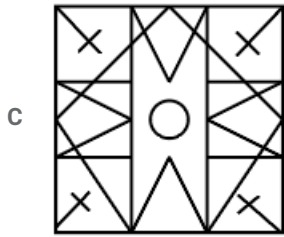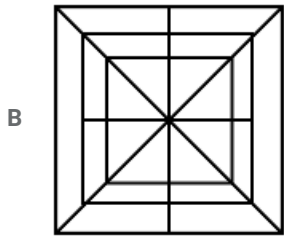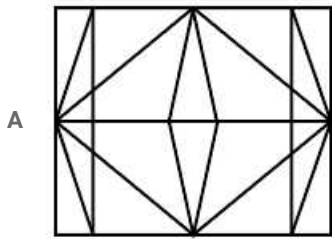
Answer: D

Question 48

Four numbers have been given out of which three are alike in some manner, while one is different. Choose the odd one.

A   18

B   25

C   24

D   33

Answer: B

Question 49

Four pairs of letter-cluster have been given out of which three are alike in some manner, while one is different. Choose the odd one.

A   GJB - ROW

B EFR - VUI

C DFL - USM

D IKN - PNK

Answer: B

Question 50

Four letter-cluster have been given out of which three are alike in some manner, while one is different. Choose the odd one.

A NOQST

B EGIKM

C BDFHJ

D QSUWY

Answer: A

General Knowledge and General Awareness

Instructions
For the following questions answer them individually

Question 51

Who, before going to the gallows, had expressed his desire for keeping his ashes intact till India is reunited and throwing them into the Indus after the reunification has been achieved?

A Uddham Singh

B Nathuram Godse

C Surya Sen

D Bhagat Singh

Answer: B

Question 52

Which of the following activities is also referred to as 'Gold Collar' profession?

A Secondary

B Quaternary

C Primary

D Quinary

Answer: D

Question 53

Who holds the record of scoring the fastest goal (in the eleventh second) in a FIFA World Cup match?

A   Hakan Sukur

B   Pele

C   Cristiano Ronaldo

D   Kylian Mbappe

   Answer: A

Question 54

Which among the following has its latitude within one degree of that New Delhi?

A   Amarnath Cave

B   City of Islamabad

C   City of Dhaka

D   Mount Everest

   Answer: D

Question 55

Which Indian was awarded the Chiratae Ventures' Patrick J. McGovern Lifetime Achievement Award 2019?

A   Narayan Murthy

B   Uday Kotak

C   Ratan Tata

D   Shiv Nadar

   Answer: C

Question 56

Which of the following films is set in the backdrop of the India-China War of 1962?

A   Hazaaron Khwaishein Aisi

B   Haqeeqat

C   Roja

D   Aakrosh

   Answer: B

Question 57

The temple at Lepakshi famous for its hanging pillars and constructed in Vijayanagara style is also called _____ temple.

A   Mahalakshmi

B   Veerabhadra

C   Mahakaal

D   Murugan

Answer: B

Question 58

Which among the following political parties was a part of NDA during the 2019 general elections?

A   AITC

B   LJP

C   DMK

D   RJD

Answer: B

Question 59

As per the India State of Forest Report 2017, which of the following states has the maximum percentage of forest cover in relation to its area?

A   Maharashtra

B   Odisha

C   Assam

D   Mizoram

Answer: D

Question 60

Which of the following is NOT an official language of the United Nations?

A   English

B   Arabic

C   Japanese

D   Chinese

Answer: C

Question 61

Rajwada palace (Cultural Heritage Project) is located at:

A   Jabalpur

B   Mandu

C   Ujjain

D   Indore

   Answer: D

Question 62

Which among the following is responsible for the rotation of the plane of oscillation of Foucault's pendulum?

A   Centripetal force

B   Viscous drag of air

C   Centrifugal force

D   Coriolis force

   Answer: D

Question 63

The birth place of Subhash Chandra Bose is:

A   Cuttack

B   Hazaribagh

C   Patna

D   Kolkata

   Answer: A

Question 64

Who used the pseudonym 'Bhanusingha'?

A   Bankim Chandra Chattopadhya

B   Sunil Gangopadhya

C   Rabindranath Tagore

D   Michael Madhusudan Dutt

   Answer: C

Question 65

Who holds the record of most 150-plus runs in a test match innings as a captain?

A   Ricky Ponting

B   Wally Hammond

C   Virat Kohli

D   Don Bradman

Answer: C

Question 66

Where was the venue of US Open Tennis Championship before it shifted to the Flushing Meadows?

A   Forest Hills

B   Plaza District

C   Woodmond Hills

D   Lexington

Answer: A

Question 67

Which one of the following diseases is caused mainly by the deficiency of Vitamin C?

A   Goitre

B   Rickets

C   Scurvy

D   Kwashiorkor

Answer: C

Question 68

In which year was the World Trade Organization established?

A   1952

B   1942

C   1947

D   1995

Answer: D

Question 69

Which among the following regarding GST is correct?

A   GST network was formed under Companies Act

B   The 100th Amendment introduced GST in the country

C   Centre holds 100 per cent stake in GST network

D   GST council is a statutory body

Answer: A

Question 70

Sapphire and ruby are varieties of natural:

A   aluminium sulphide

B   aluminium hydroxide

C   aluminium carbonate

D   aluminium oxide

Answer: D

Question 71

'Powa Mecca' in Assam is the tomb of _____.

A   Pir Giasuddin Auliya

B   Shujauddin Mohammed Shah

C   Khwaja Bande Nawaz

D   Sheikh Salim Chisti

Answer: A

Question 72

Which among the following is the confluence of Alaknanda and Mandakini?

A   Vishnuprayag

B   Nandprayag

C   Rudraprayag

D   Devprayag

Answer: C

Question 73

Hirakud dam is built across the river:

A   Betwa

B   Mahanadi

C   Krishna

D   Godavari

Answer: B

Question 74

How many times has India won the ICC U-19 World Cup?

A   Two

B   One

C   Four

D   Three

Answer: C

Question 75

The famous mathematician Srinivasa Ramanujan was born in:

A   Madras (now Chennai)

B   Kumbakonam

C   Namakkal

D   Erode

Answer: D

Question 76

The famous physician Jeevaka was appointed by the court of:

A   Krishnadeva Raya

B   Samudragupta

C   Ashoka

D   Bimbisara

Answer: D

Question 77

Jagannath Mishra was the three-time Chief Minister of the state of _____ .

A   Haryana

B   Uttar Pradesh

C   Odisha

D   Bihar

Answer: D

Question 78

Which among the following combination is present in higher amount in hard water?

A   Calcium and magnesium

B   Calcium and sodium

C   Sodium and magnesium

D   Sodium and manganese

   Answer: A

Question 79

In the context of NITI Aayog, what does 'T' stand for in NITI?

A   Travelling

B   Training

C   Transforming

D   Transferring

   Answer: C

Question 80

During the freedom struggle, who was the only President of Indian National Congress who resigned from the presidency even after being elected?

A   Subhash Chandra Bose

B   Nellie Sengupta

C   JB Kripalini

D   Jawaharlal Nehru

   Answer: A

Question 81

What is the full form of NPCI which is an umbrella organisation for all retail payments system in India?

A   National Payments Corporation of India

B   Non-cash Payments Corporation of India

C   Non-cash Payments Cooperative Inc.

D   Net Payments Company Inc.

   Answer: A

Question 82

What is the maximum amount of loan permissible under Pradhan Mantri MUDRA Yojana?

A   ₹12 lakhs

B   ₹5 lakhs

C   ₹3 lakhs

D   ₹10 lakhs

   Answer: D

Question 83

In which year was the battle of Buxar fought?

A   1758

B   1757

C   1765

D   1764

   Answer: D

Question 84

Which one of the following states is the largest producer of pulses in India?

A   Haryana

B   Bihar

C   Madhya Pradesh

D   Uttarakhand

   Answer: C

Question 85

The name of which disease among the following means 'evil influence of the stars'?

A   Cholera

B   Plague

C   Influenza

D   Typhoid

   Answer: C

Question 86

Baily's beads can be observed during a/an:

A   occultation of Jupiter

B   partial solar eclipse

C   lunar eclipse

D   total solar eclipse

Answer: D

Question 87

Where in India is the first indigenously built atomic power plant located?

A   Trombay

B   Kota

C   Kalpakkam

D   Tarapur

Answer: C

Question 88

Twin paradox is associated with:

A   the theory of relativity

B   particle physics

C   hydrodynamics

D   quantum mechanics

Answer: A

Question 89

Which among the following is a copper mineral?

A   azurite

B   bauxite

C   halite

D   hematite

Answer: A

Question 90

At the location of which city in Assam, the river Brahmaputra goes south bound breaking away from its westward course and enters into Bangladesh?

A   Bongaigaon

B   Tezpur

C   Dhubri

D   Barpeta

Answer: C

Question 91

Gnana Saraswati temple of southern India is located at:

A   Basar

B   Puducherry

C   Tirunelveli

D   Thrissur

Answer: A

Question 92

The part of the eye which is responsible for the conversion of image of an object into neural signals is:

A   iris

B   optic nerve

C   vitreous humour

D   retina

Answer: D

Question 93

Under which Article of the Constitution of India can the President promulgate an ordinance?

A   Article 75

B   Article 101

C   Article 123

D   Article 168

Answer: C

Question 94

With reference to the High Courts and their seats, which of the following pairs is correctly matched?

A   Odisha - Sambalpur

B   Gujarat - Gandhinagar

C   Madhya Pradesh - Gwalior

D   Uttarakhand - Nainital

Answer: D

Question 95

What was the party affiliation of EMS Namboodiripad?

A   Kerala Congress

B   SUCI

C   CPI

D   CPI(M)

Answer: D

Question 96

Who is the author of 'Swami Vivekananda in the West: New Discoveries'?

A   Marie Louise Burke

B   Romain Rolland

C   Sister Nivedita

D   Swami Ranganathananda

Answer: A

Question 97

Under which Five Year Plan, the steel plants of Rourkela, Bhilai and Durgapur were established?

A   Fourth

B   Seventh

C   Third

D   Second

Answer: D

Question 98

Who is the first woman to have been awarded the Yudh Seva Medal?

A   Bhawana Kanth

B   Shaliza Dhami

C   Minty Agarwal

D   Aparna Kumar

Answer: C

Question 99

In February 2019, India signed a letter of intent with _____ to fight marine pollution.

A Denmark

B Bhutan

C Norway

D Cambodia

Answer: C

Question 100

Who among the following received the Sahitya Akademi Award in 1968?

A Kaifi Azmi

B Buddhadeb Basu

C Harivansh Rai Bachchan

D Amrita Pritam

Answer: C

Quantitative Aptitude

Instructions

For the following questions answer them individually

Question 101

Study the bar graph and answer the question.

Life time(in hours)of neon lamps
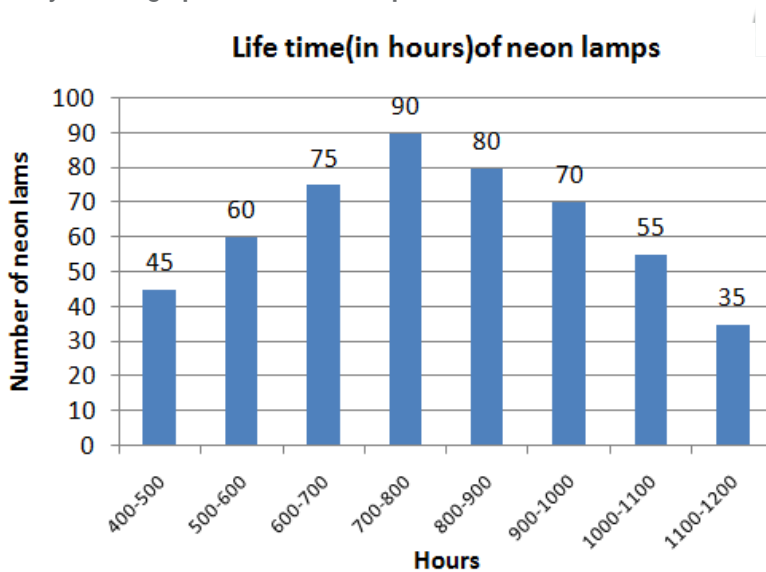
The number of neon lamps having life of 600 hours or more but less than 800 hours is what percentage of the total number of neon lamps having a life of 800 hours or more?

A 66.67

B 67.50

C 69.25

D 68.75

Answer: D

Question 102

As observed from the top of a lighthouse, 45 m high above the sea-level, the angle of depression of a ship, sailing directly towardsit, changes from $30°$ to $45°$. The distance travelled by the ship during the period of observation is: (Your answer should be correct to one decimalplace.)

A 32.9 m

B 33.4 m

C 36.9 m

D 24.8 m

Answer: A

Question 103

A 22 m long ladder (whose foot is on the ground) leans against a wall making an angle of $60°$ with the wall. What is the height (in m) of the point where the ladder touches the wall from the ground?

A $\frac{22\sqrt{2}}{3}$

B $11\sqrt{2}$

C 11

D $11\sqrt{3}$

Answer: C

Instructions

Study the pie chart and answer the question.
Distribution (degree wise) of the number of computers sold by a shopkeeper during five months

Total Number of Computers Sold = 5400

May 77°
January 85°
April 54°
February 45°
March 99°
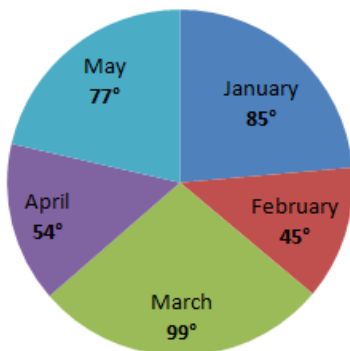
Question 104

If the difference between the number of computers sold in March and the number of computers sold in January is x, then x lies between:

A   200 and 250

B   300 and 350

C   250 and 300

D   150 and 200

   Answer: A

Question 105

The number of months, in which the number of computers sold was above 20% of the total number of computers sold in 5 months, was:

A   3

B   4

C   1

D   2

   Answer: A

Instructions
For the following questions answer them individually

Question 106

A can do $\frac{2}{5}$ of a work in 12 days while B can do $66\frac{2}{3}\%$ of the same work in 16 days. They work together for 10 days. B alone will complete the remaining work in:

A   6 days

B   4 days

C   8 days

D   9 days

   Answer: A

Question 107

The compound interest amounts on a certain sum at a certain rate percentage p.a. for the second year and third year are ₹3,300 and ₹3,630, respectively. What is the amount of the same sum at the same rate in $2\frac{1}{2}$ years, interest compounded yearly?

A   ₹37,215

B   ₹36,300

C   ₹38,115

D   ₹36,000

   Answer: C

Question 108

A solid metallic sphere of radius 6.3 cm is melted and recast into a right circular cone of height 25.2 cm. What is the ratio of the diameter of the base to the height of the cone?

A   2 : 1

B   3 : 2

C   1 : 2

D   2 : 3

Answer: C

Question 109

The sides of $\triangle ABC$ are 10 cm, 10.5 cm and 14.5 cm. What is the radius of its circumcircle?

A   5 cm

B   7.5 cm

C   5.25 cm

D   7.25 cm

Answer: D

Question 110

If $\sqrt{x} + \frac{1}{\sqrt{x}} = 3, x > 0$, then $x^2(x^2 - 47) = ?$

A   0

B   2

C   -2

D   -1

Answer: D

Question 111

In finding the HCF of two numbers by division method, the quotients are 1, 8 and 2 respectively, and the last divisor is 105. What is the sum of the numbers?

A   3570

B   3885

C   3780

D   3675

Answer: C

Instructions

Study the bar graph and answer the question.

Number of trees painted by an organisation in states A and B during 2014 to 2018
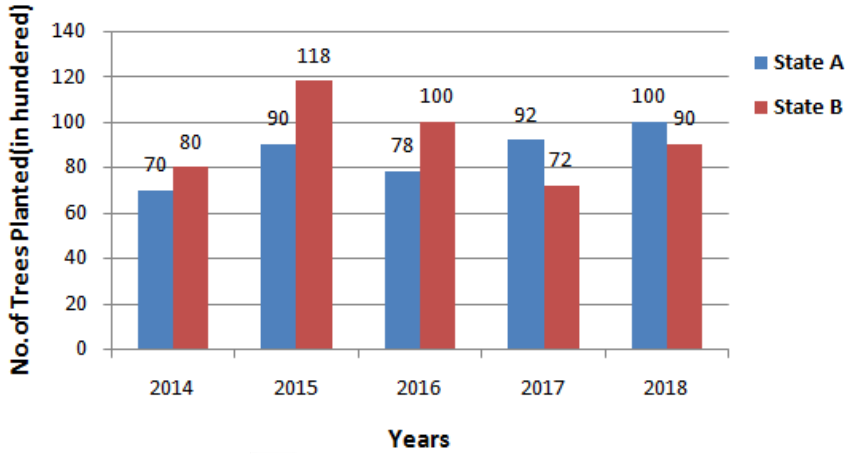
Question 112

In how many years was the number of trees planted in state B more than the average number of trees planted in state A over the years?

A 1

B 3

C 4

D 2

Answer: B

Question 113

Percentage decrease in the number of trees planted in 2016 in state A as compared to that in 2015 in the same state was:

A $15\frac{5}{13}$

B $15\frac{2}{3}$

C $13\frac{1}{3}$

D $13\frac{2}{3}$

Answer: C

Question 114

The total number of trees planted in state B in 2015 and 2017 was what percentage less than the total number of trees planted in state A in 2014, 2016 and 2017? (Your answer should be correct to one decimalplace.)

A 19.8

B 21.4

C 20.8

D 20.1

Answer: C

Instructions

For the following questions answer them individually

Question 115

In a school, 60% of the numberof students are boys and the rest are girls. If 20% of the number of boys failed and 65% of the number of girls passed the examination, then the percentage of the total number of students who passed is:

A 68

B 72

C 74

D 78

Answer: C

Question 116

The sides of a triangular park are 35 m, 53 m and 66 m. The cost of levelling the park at the rate of ₹9.25/ m^2 is:

A ₹8,584

B ₹8,547

C ₹8,621

D ₹8,510

Answer: B

Question 117

A person invested a sum of ₹10,500 at x% per annum atsimple interest and a sum of ₹13,500 at (x + 2)% p.a. at simpleinterest. If the total interest earned on both the investmentsfor 3 years is ₹7,650, then the rate of interest on the first investment is:

A 8%

B 8.5%

C 9%

D 9.5%

Answer: D

Question 118

invests ₹6,00,000 more thanB in a business. B invests his capital for $7\frac{1}{2}$ months, while A invests his capital for $2\frac{1}{2}$ more months than B. Out of the total profit of ₹12,40,000, if the share of B is ₹2,48,000 less than the share of A, then the capital of B is:

A ₹45,00,000

B ₹42,00,000

C ₹40,00,000

D ₹48,00,000

Answer: D

Question 119

Let x be the least number divisible by 16, 24, 30, 36 and 45, and x is also a perfect square. What is the remainder when x is divided by 123?

A 100

B 40

C 103

D 33

Answer: D

Question 120

The ratio of radius of the base and the height of solid right circular cylinder is 2 : 3. If its volume is 202. 125 cm ^{3}, then its total surface area is: (Take $\pi = \frac{22}{7}$)

A 192.5 cm^2

B 154 cm^2

C 168 cm^2

D 115.5 cm^2

Answer: A

Question 121

If x and y are real numbers, then the least possible value of $4(x-2)^2 + (y-3)^2 - 2(x-3)^2$ is:

A 3

B -4

C 1

D -8

Answer: B

Question 122

The distance between two places A and B is 14 km. A boat travels from A to B downstream and then returns from B to A upstream and takes a total of 3 hours 44 minutes for the entire journey. If the speed of the current is 2 km/h, then what is the speed of the boat, in km/h, in still water?

A 8

B 7

C $7\frac{1}{2}$

D $6\frac{1}{2}$

Answer: A

Question 123

Two circles of radii 5 cm and 3 cm intersect each other at A and B,and the distance betweentheir centres is 6 cm. The length (in cm) of the common chord AB is:

A $\frac{4\sqrt{13}}{3}$

B $\frac{2\sqrt{14}}{3}$

C $\frac{2\sqrt{13}}{3}$

D $\frac{4\sqrt{14}}{3}$

Answer: D

Question 124

The value of $9 \times [((9 - 4) \div \{(8 \div 8 of 4) + (4 \div 4 of 2)\}]$ is:

A   20

B   60

C $\frac{15}{4}$

D $\frac{15}{2}$

Answer: B

Question 125

Pipes A and B together can fill an empty tank in $6\frac{2}{3}$ minutes. If A takes 3 minutes more than B to fill the tank, then the time(in minutes) in which A alone would fill one-third part of the tank is:

A   6

B   5

C   5.5

D   4.5

Answer: B

Question 126

If $7 \sin^2 \theta + 3 \cos^2 \theta = 4, 0° < \theta < 90°$, then the value of $(\tan^2 2\theta + \operatorname{cosec}^2 2\theta)$ is:

A 7

B $\frac{15}{4}$

C $\frac{13}{3}$

D $\frac{13}{4}$

Answer: C

Question 127

Study the bar graph and answer the question.

Life time(in hours)of neon lamps
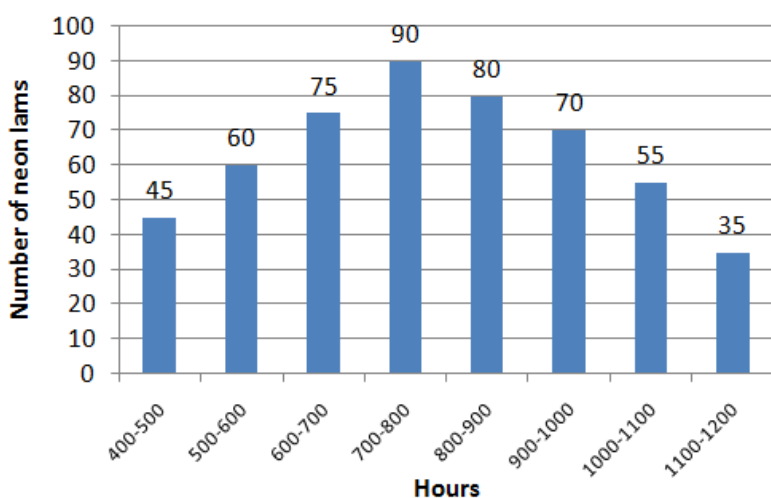
The ratio of the number of neon lamps having a life of 900 hours or more to the number of lamps having life less than 700 hours is:

A 25 : 21

B 8 : 9

C 6 : 7

D 7 : 8

Answer: B

Question 128

The value of $\frac{4.669 \times 4.669 - 9 \times (0.777)^2}{(4.669)^2 + (2.331)^2 + 14(0.667)(2.331)}$ is (1 - k), where k = ?

A 0.666

B 0.647

C 0.467

D 0.768

Answer: A

Question 129

A person sold a chair at a profit of 13%. Had he sold it for ₹607.50 more, he would have gained x%. If the cost price of the chair is ₹3750, then the value of x is:

A 30

B 32

C 28.4

D 29.2

Answer: D

Question 130

The average weight of the boys in a class is 69.3 kg and that of the girls in the same class is 59.4 kg. If the average weight of all the boys and girls in the class is 63.8 kg, then the percentage of the number of boys in the class is:

A $55\frac{5}{9}$

B 40

C 45

D $44\frac{4}{9}$

Answer: D

Question 131

If $21 \tan \theta = 20$, then $(1 + \sin \theta + \cos \theta) : (1 - \sin \theta + \cos \theta) =$?

A 5 : 2

B 3 : 1

C 7 : 3

D 2 : 1

Answer: C

Question 132

If A is 48% more than B and C is 60%less than the sum of A and B, then A is what percentage more than C? (Correct to one decimalplace.)

A 50.8

B 49.2

C 50.2

D 49.8

Answer: B

Question 133

A field is in the form of a circle. The cost of fencing around it at ₹12 per metre is ₹2,640. What is the area (in m^2) of the field? (Take $\pi = \frac{22}{7}$)

A 1925 m^2

B 3850 m^2

C 2772 m^2

D 5544 m^2

Answer: B

Question 134

The sides AB, BC and AC of a $\triangle$ABC are 12 cm, 8 cm and 10 cm respectively. A circle is inscribed in the triangle touching AB, BC and AC at D, E and F, respectively. The difference between the lengths of AD and CE is:

A 4 cm

B 5 cm

C 3 cm

D 2 cm

Answer: A

Question 135

The value of $\dfrac{\frac{1}{3}+\left[4\frac{3}{4}-\left(3\frac{1}{6}-2\frac{1}{3}\right)\right]}{\left(\frac{1}{5}\,of\,\frac{1}{5}\div\frac{1}{5}\right)\div\left(\frac{1}{5}\div\frac{1}{5}\times\frac{1}{5}\right)}$ lies between:

A 10.2 and 10.8

B 4.2 and 4.4

C 8.2 and 8.8

D 0.4 and 0.9

Answer: B

Question 136

The value of $\sqrt{11+2\sqrt{18}}$ is closest to:

A 4.8

B 4.4

C 3.8

D 4.1

Answer: B

Question 137

Working 7 hours a day, 18 persons can complete a certain work in 32 days. In how many days would 14 persons complete the same work, working 8 hours a day?

A   42

B   30

C   35

D   36

Answer: D

Question 138

The curved surface area of a right circular cone is 156 π and the radius of its base is 12 cm. What is the volume of the cone, in cm ^{3} ?

A   192 π

B   210 π

C   240 π

D   180 π

Answer: C

Question 139

If $x = 5.51, y = 5.52$ and $z = 5.57$, then what is the value of $x^3 + y^3 + z^3 - 3xyz?$

A   5.146

B   51.46

C   0.05146

D   0.5146

Answer: C

Question 140

A trader buys an article at 80% of its marked price and sells it at 10% discount on its marked price. His percentage profit is:

A $10\frac{1}{2}$

B   10

C $12\frac{1}{2}$

D   15

Answer: C

Question 141

The average of n observations is 40. If one observation of value 80 is added, then the average of all the observations is 41. What is the value of n?

A 40

B 39

C 38

D 43

Answer: B

Question 142

Pipes A and B can fill a tank in 36 hours and 48 hours, respectively. Both pipes are opened together for 9 hours and then A is closed. Pipe B alone will fill the remaining part of the tank now in:

A $20\frac{1}{2}$ hours

B 25 hours

C 27 hours

D 24 hours

Answer: C

Question 143

The total numbers of males and females in a town is 70,000. If the number of males is increased by 6% and that of the females is increased by 4%, then the total numbers of males and females in the town would become 73520. What is the difference between the number of males and females in the town, in the beginning?

A 1500

B 1800

C 2000

D 1400

Answer: C

Question 144

When a certain number is divided by 65, the remainder is 56. When the same number is divided by 13, the remainder is x . What is the value of $\sqrt{5x - 2}$?

A $2\sqrt{7}$

B $\sqrt{13}$

C $2\sqrt{2}$

D $3\sqrt{2}$

Answer: D

Question 145

In $\triangle ABC$, $\angle = 90°$, $AB = 16cm$ and $AC = 12cm$. D is the midpoint of AC and $DE \perp CB$ at E. What is the area (in cm ^{2}) of $\triangle$ CDE?

A 8.64

B 7.68

C 5.76

D 6.25

Answer: A

Question 146

A sum (in ₹) is distributed between A, B and in the ratio 9 : 6: 11. If A gives ₹500 from his share to C, the ratio of shares of A, B and C becomes 4 : 3 : 6. What is the sum ofshares(in ₹) of B and C, in the beginning?

A ₹8,500

B ₹9,100

C ₹7,800

D ₹7,500

Answer: A

Question 147

Study the pie chart and answer the question.
Distribution (degree wise) of the number of computers sold by a shopkeeper during five months.

Total Number of Computers Sold = 5400
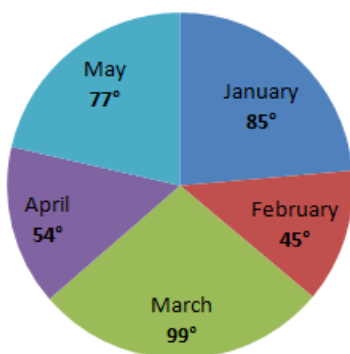
The total number of computers sold in February and April is what percentage more than the number of computers sold in May? (Your answer should be correct to one decimal place.)

A 25.8

B 28.6

C 30.2

D 26.4

Answer: B

Question 148

A person takes 40 minutes more than his usual time when he covers a distance of 20 km at 5 km/h.If he covers the same distance at 8 km/h, he takes x minutes less than the usual time. What is the value of x ?

A 48

B 54

C 45

D 50

Answer: D

Question 149

An article is marked at 100% above its cost price. After allowing two successive discounts of 5% and 20% respectively on the marked price, it is sold at x% profit. What is the value of x?

A 48

B 75

C 72

D 52

Answer: D

Question 150

Study the bar graph and answer the question.

Life time(in hours)of neon lamps
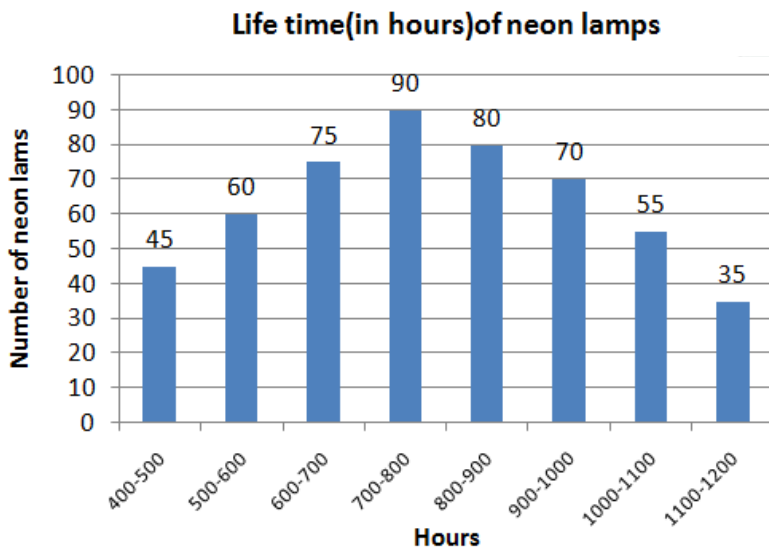
The number of neon lamps having a life of 500 hours or more but less than 800 hours is:

A 180

B 305

C 270

D 225

    Answer: D

English Comprehension

Instructions

For the following questions answer them individually

Question 151

Select the most appropriate option to substitute the underlined segment. If no substitution is required select 'No substitution'
Even if he is a honest man, he has been accused of theft.

A Although he is an honest man

B No substitution

C Even though he is a honest man

D Since he are an honest man

    Answer: A

Question 152

Select the most appropriate antonym of the given word.
PERTURB

A Fluster

B Soothe

C Confound

D Commend

    Answer: B

Instructions

Read the given passage and answer the questions that follow.

Comprehension:
The beaver had made a dam about hundred yards long, and it had formed out of the quickly flowing stream, a wide stretch of water about twelve feet deep. The dam was so firm and broad that it was easy for me to walk along it. After a hundred and fifty yards I came to a 'beaver's castle'- a great heap of logs skilfully fitted together, the lower part covered with earth and plants. The upper logs were put loosely together so that the air could pass through to the interior.

In the late autumn, before land and water are covered with snow and ice, the beaver has to make its dwelling frostproof. It collects young trees and gnaws the stems in a double cone until the tree falls.Then the long stems are gnawed into small sections, the thin twigs bitten off and the logs are dragged to the dwelling. There, the timber is piled on the castle, sometimes to a height of ten or twelve feet. Mud is brought up from the bottom of the lake and packed between the logs with the animal's clever forepaws. The interior is lined

with the finest wood shavings. In this tall shelter, the beaver remains high and dry, and protected from frost throughout the winter.

The only access to the dwelling is under the water, and even the forest wolves are not able to pull the firm building apart. The water is the beaver's element. On land it moves slowly and awkwardly. Thus, it is vital for the beaver to have water in which it can swim, and where nature
has not provided this condition for it, it creates it with its dam.

The beaver's activities can change whole landscapes. With this dam, for instance, on which I was standing, beavers had turned a whole wooded alley into a lake; trees that stood there ha been killed by the water and had disappeared. Aquatic game had settled there. Ducks swam past us, and great must have been the number of fish, as swarms of trout had swum past me in the clear stream. Wide stretches of meadow had come into existence on the banks, with flat landing places to which the well-beaten beaver tracks led. Many years of building, gnawing and dragging must have gone into the completion of this immense task, creating a new region for the beaver to live in.

Question 153

What evidence in the passage suggests that beavers build strong dwellings?

A   The beaver's dwelling is frostproof.

B   It takes many years of hard work to build the dwelling.

C   Even the forest wolves cannot pull the dwelling apart.

D   The interior is lined with finest wood shavings.

   Answer: C

Question 154

The beavers can change the landscape by:

A   building castles with great heaps of logs.

B   dragging the logs of wood to the dwelling.

C   building dams that can convert a wooded alley into a lake.

D   swimming in the water along with ducks and trouts.

   Answer: C

Question 155

Which line in the passage most strongly indicates that weavers simply love being in or near water?

A   The water is the beaver's element.

B   The dam was so firm and broad that it was easy to walk along.

C   The beaver had made a dam out of the quickly flowing stream.

D   The only access to the dwelling is under the water.

   Answer: A

Question 156

Which of the following statements is NOT true?

A   The beaver has to make its dwelling frostproof before it starts snowing.

B The beaver can move quickly and easily on land and in water.

C The access to the beaver's dwelling is under the water.

D Wide stretches of meadows may come into existence on the banks of streams.

Answer: B

Question 157

How does a beaver ensure that its castle is well ventilated?

A The upper logs are loosely placed.

B The timber is piled upto ten feet high on the castle.

C The long stems are gnawed into small sections.

D The logs are covered with earth and plants.

Answer: A

Instructions

For the following questions answer them individually

Question 158

Select the most appropriate option to fill in the blank.
Keep away from bad company _____ you should regret later.

A whether

B unless

C although

D lest

Answer: D

Question 159

Select the most appropriate antonym of the given word.
IMPEDE

A Expedite

B Thwart

C Retard

D Hamper

Answer: A

Question 160

Identify the segment that contains a grammatical error. If there is no error, select 'No error'
Need you to buy so many books?

A so many books

B Need you

C to buy

D No error

Answer: C

Question 161

Select the most appropriate meaning of the underlined idiom in the given sentence.
Unless you are <u>above board</u> in your dealings, you will not be able to win the trust of your clients.

A bold and reckless

B exceptionally talented

C smart and deceptive

D honest and frank

Answer: D

Question 162

Identify the segment that contains a grammatical error. If there is no error, select 'No error'
If he wants to recover, he must abstain for alcohol.

A No error

B wants to recover

C he must

D abstain for alcohol

Answer: D

Question 163

Select the option which is the most appropriate one word substitution for the given group of words.
A detailed plan for a journey especially a list of places to visit

A directory

B itinerary

C trajectory

D inventory

Answer: B

Question 164

Select the wrongly spelt word.

A Sacrelegious

B Manoeuvre

C Millennium

D Connoisseur

Answer: A

Question 165

Select the option which is the most appropriate one word substitution for the given group of words.
One who denies oneself ordinary bodily pleasures

A aesthetic

B theist

C atheist

D ascetic

Answer: D

Question 166

Select the most appropriate meaning of the underlined idiom in the given sentence.
He is completely at sea about where to invest his hard-earned money.

A in shock

B committed

C sure

D confused

Answer: D

Question 167

Select the most appropriate synonym of the given word.
FLOURISH

A Languish

B Wither

C Shrivel

D Thrive

Answer: D

Question 168

Select the most appropriate option to fill in the blank.
Due to shortage of time, I was unable _____ the task satisfactorily.

A   for completing

B   from complete

C   to complete

D   in completing

   Answer: C

Question 169

Select the most appropriate meaning of the underlined idiom in the given sentence.
The thieves <u>made off</u> with all the cash and jewellery in the house.

A   squandered

B   ran away with

C   transferred

D   discovered

   Answer: B

Question 170

Select the most appropriate option to fill in the blank.
I who _____ your friend and wellwisher, should have been informed about your decision.

A   be

B   am

C   is

D   are

   Answer: B

Question 171

Identify the segment that contains a grammatical error. If there is no error, select 'No error'
Either of the two supervisors were supposed to be present at the site.

A   present at the site

B   the two supervisors

C   No error

D   were supposed to be

   Answer: D

Question 172

Select the most appropriate synonym of the given word.
PERPETUATE

A   Cease

B   Preserve

C   Prevent

D   Release

   Answer: B

Question 173

Select the wrongly spelt word.

A   Eliminate

B   Gluton

C   Allergy

D   Reliant

   Answer: B

Question 174

Select the most appropriate antonym of the given word.
REPUGNANT

A   Odious

B   Pleasant

C   Austere

D   Sombre

   Answer: B

Question 175

Select the most appropriate option to fill in the blank.
Hitler believed that the Nordic Aryan race was superior _____ all other races.

A   than

B   to

C   in

D   from

   Answer: B

Question 176

Select the option which is the most appropriate one word substitution for the given group of words.
A protected place for birds and animals

A   island

B   bunker

C   estuary

D   sanctuary

   Answer: D

Question 177

Select the most appropriate option to fill in the blank.
You are well prepared to handle the responsibilities bestowed _____ you.

A   at

B   for

C   to

D   upon

   Answer: D

Question 178

Select the most appropriate synonym of the given word.
DISCERN

A   Neglect

B   Disregard

C   Daunt

D   Perceive

   Answer: D

Question 179

Identify the segment that contains a grammatical error. If there is no error, select 'No error'
We will have to walk now since we had missed the bus.

A   since we had

B   We will have to

C   walk now

D No error

Answer: A

Question 180

Select the option which is the most appropriate one word substitution for the given group of words.
A shortened form of a word or phrase

A pseudonym

B abbreviation

C precis

D summary

Answer: B

Question 181

Select the most appropriate meaning of the underlined idiom in the given sentence.
The abrogation of article 370 was achieved in the teeth of tough resistance.

A in a state of uncertainty

B in collaboration with

C in a short span of time

D in direct opposition to

Answer: D

Question 182

Select the wrongly spelt word.

A Treasury

B Burglery

C Nursery

D Aviary

Answer: B

Question 183

Select the most appropriate antonym of the given word.
DUBIOUS

A Likely

B Dusky

C Shady

D Fishy

Answer: A

Question 184

Select the most appropriate meaning of the underlined idiom in the given sentence.
As the flood waters hit the coastal village, several families had a close shave.

A   nothing to eat

B   a narrow escape

C   to have no livelihood

D   to lose all possessions

Answer: B

Question 185

Select the option which is the most appropriate one word substitution for the given group of words.
One who devotes one's life to the welfare of other people.

A   martyr

B   altruist

C   alchemist

D   ambassador

Answer: B

Question 186

Select the most appropriate synonym of the given word.
INIMICAL

A   Deliberate

B   Comparable

C   Influential

D   Hostile

Answer: D

Question 187

Select the most appropriate option to substitute the underlined segment. If no substitution is required select 'No substitution'
She availed of the big discounts at the sale.

A   No substitution

B   She availed for a

C   She availed on the

D   She availed herself of the

Answer: D

Question 188

Identify the segment that contains a grammatical error. If there is no error, select 'No error'
These facts should not have been disclosed for the public.

A   No error

B   not have been disclosed

C   for the public

D   These facts should

   Answer: C

Question 189

Select the most appropriate option to substitute the underlined segment. If no substitution is required select 'No substitution'
If I would have a degree from the university, I would get a good job.

A   When I will have a degree

B   If I am having the degree

C   No substitution

D   If I had a degree

   Answer: D

Instructions

Read the given passage and fill in the blanks with the most appropriate options.
Comprehension:
The refugees coming by boat to Italy have already set a record this year. The surge (1)_____ partly from the civil war in Syria, which has forced 3 million people to (2)_____ their homeland. Europe, peaceful, affluent and comparatively close- is a preferred (3)_____. It's where the desperate meets the developed. Often with the aid (4)_____ reckless human traffickers, refugees attempt to cross the waters in rubber dinghies that can (5)_____, plunging the occupants into the sea.

Question 190

Select the most appropriate option to fill in blank No.1

A   has resulted

B   have resulted

C   is resulted

D   is resulting

   Answer: A

Question 191

Select the most appropriate option to fill in blank No.2

A fly

B flee

C fleet

D fled

Answer: B

Question 192

Select the most appropriate option to fill in blank No.3

A purpose

B destination

C objective

D target

Answer: B

Question 193

Select the most appropriate option to fill in blank No.4

A by

B for

C of

D on

Answer: C

Question 194

Select the most appropriate option to fill in blank No.5

A renege

B inverse

C convert

D capsize

Answer: D

Instructions

For the following questions answer them individually

Question 195

Select the wrongly spelt word.

A   Omission

B   Avertion

C   Aviation

D   Evasion

   Answer: B

Question 196

Select the most appropriate synonym of the given word.
VENERABLE

A   Reliable

B   Valuable

C   Esteemed

D   Redeemed

   Answer: C

Question 197

Select the most appropriate antonym of the given word.
DEMEAN

A   Debase

B   Belittle

C   Admire

D   Ignore

   Answer: C

Question 198

Select the most appropriate option to substitute the underlined segment. If no substitution is required select 'No substitution'
Neither the directors nor the Chairman were available to interrogation.

A   were available for

B   were available by

C   was available for

D   No substitution

   Answer: C

Question 199

Select the wrongly spelt word.

A Article

B Audibal

C Precious

D Conceal

   Answer: B

Question 200

Select the most appropriate option to substitute the underlined segment. If no substitution is required select 'No substitution'
He had <u>barely spoken the words when</u> he realised his mistake.

A barely speak the words that

B No substitution

C barely spoken the words than

D barely spoke the words when

   Answer: B