Q:1 Find the maximum length of the rod that can be placed in a room of dimensions 20 meters × 10 meters × 15 meters.
1. 19.7 m
2. 21.09 m
3. 24.24 m
4. 26.93 m

Q:2 If $(31/4) + (23/8) - 5 × 8 ÷ 4 = x$ then, x = ?
1. 5/8
2. 4/5
3. 7/8
4. 11

Q:3 The ratio of the speed of a man, going from his house to the office and coming back from the office to the house is 6 : 5. If he takes 1 hour more to come back from the office, find the initial speed of that man if the distance between his house and office is 180 km.
1. 30 km/hr
2. 36 km/hr
3. 18 km/hr
4. 25 km/hr

Q:4 In triangle MNO, $∠M = (4x - 10°)$, $∠N = (5x - 5°)$ and $∠O = (3x + 15°)$. Find $∠N - ∠O$.
1. 10°
2. 15°
3. 45°
4. 12°

Q:5 In the given figure CD || AB, ∠CBA = 35°. Find the value of ∠CDB − ∠DBC.
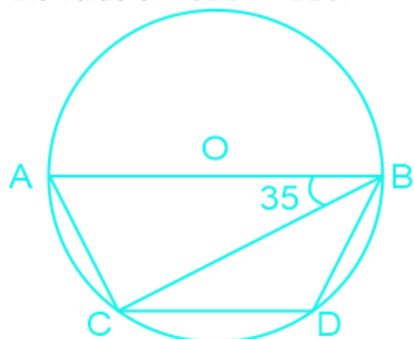
1. 150°
2. 130°
3. 105°

4. 165°

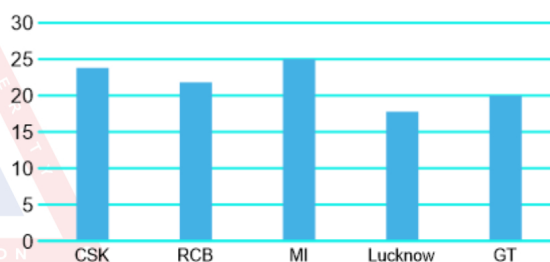**Q:6** We get 7 as a remainder when 547 is divided by p. Find the maximum values of p.
1. 24
2. 18
3. 6
4. 20

Q:7 If $41\sec\theta - 40\tan\theta = 9$, then find the value of $\sec^4\theta - \tan^4\theta$.
1. 1600/3281
2. 81/3281
3. 3281/81
4. 3281/1600

Directions 8 – 9 : The following graph shows the average age of 11 players of 5 IPL teams(CSK, RCB, MI, LSG, and GT)
Examine the graph carefully and answer the following questions.

Q:8 After including a player to the GT average is increased by 1.5 years. What is the age of the new player?
1. 30 years
2. 38 years
3. 44 years
4. 22 years

Q:9 If two players of MI aged 30 years and 32 years are replaced with two new players to make the new average age 26 years. What is the average age of those two new players?
1. 25.5 years
2. 30.5 years
3. 35.5 years
4. 36.5 years

1

Q:10 If $\{x + (1/x)\} = \sqrt{3}$, then find the value of $x^{162} + x^{312} + x^{468}$.
1. 4
2. 1
3. 0
4. 7

Q:11 The ratio between the speed of the current to the speed of the boat in still water is 3 : 11. The downstream speed is what percent of the upstream speed?
1. 125%
2. 100%
3. 175%
4. 145%

Q:12 Two types of notebooks marked at Rs 30 and Rs 25 are sold in the market. If the discount% offered on Rs 30 notebook and Rs 25 notebook are 30% and 20%, what is the overall discount%? [The total numbers of Rs 30 notebooks and Rs 25 notebooks sold are 200 and 160 respectively.]
1. 25
2. 26
3. 27
4. 28

Q:13 Study the following pie chart and the table and answer the questions accordingly.
The total sum of the selling price of each unit of products A, B, C, D, and E is Rs 90. The pie charts show the angle subtended by the sector representing the selling price of each unit of products A, B, C, D, and E from the total.
The table contains the profit% of products A, B, C, D, and E

Selling price of each unit
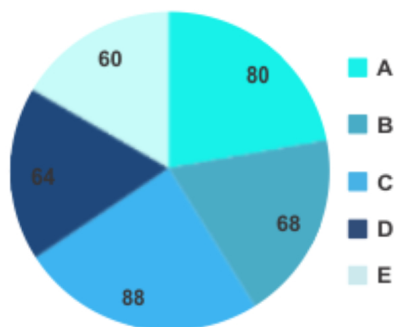
Item	Profit%
A	25
B	6.25
C	37.5
D	60
E	25

By some mistake, 50 units of D were sold at the selling price of E. Other 200 units of D were sold at proper price. What is the overall profit%?
1. 54%
2. 56%
3. 58%
4. 60%

Q:14 The ratio of father and his son age is 5 : 1. The average of their age is 24. what is the age of father after 6 years?
1. 40
2. 46
3. 34
4. 12

Q:15 A family of 4 members' expenditure shoots up by 20% after the increase in the prices of rice by 25%. By how much percentage the consumption of rice would fall for the family?
1. 5%
2. 4%
3. 4.5%
4. Cannot be determined

Q:16 If the amount received on a sum of Rs.172800 at a rate of 25% for j years is equal to Rs. 864000, then find the value of j.
1. 12
2. 24
3. 16
4. 15

Q:17 543 workers can build an apartment in 35 days. After 30 days some workers left and the remaining work was completed in 15 days. Find the number of workers who had left.

1. 181
2. 143
3. 178
4. 362

Q:18 Ram went to the market last week and bought 7 Books and 5 pens from there at Rs 330. The next day his brother went to the same market and bought 2 Books and 7 pens at Rs 150. So, find the total price of 5 Books and 2 pens.
1. Rs 240
2. Rs 260
3. Rs 190
4. Rs 220

Q:19 The value of $3 \times 2 \div 3$ of $12 - 3 \div 2 \times (2 - 3) \times 2 + 3 \div 2$ is:
1. 7/3
2. -7/3
3. -14/3
4. 14/3

Q:20 In the figure given below, the rectangle is cut into four triangles AOB, BOC, COD, and DOA. Due to this, the percentage increase in the perimeter is 500/7%. What is the ratio of the length and breadth of the rectangle? (length being the larger side)
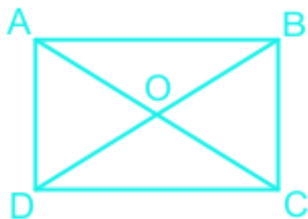
1. 4 : 3
2. 5 : 2
3. 6 : 1
4. 9 : 5

Q:21 A certain amount of money earns Rs 450 as a simple interest in 2 years. If it earns compound interest of Rs 472.5 at the same rate of interest. Find the rate of interest.
1. 10%
2. 12%
3. 8%
4. 7.5%

Q:22 A can do one-third of the work in 4 days, and B can complete 25% of the work in 4 days. C can complete the work in 12 days. B and C work together for 4 days and leaves the remaining part to A. How many days will A take to complete the work?
1. 3
2. 4
3. 5
4. 6

Q:23 Ravi sold a mobile to Rohan at 11% profit and Rohan sold the same mobile to Sohan at 12% profit. If Sohan paid Rs 12432 for the mobile, then at what price did Ravi buy the mobile?
1. Rs. 12000
2. Rs. 11000
3. Rs. 10000
4. Rs. 9000

Q:24 Bar graph given below shows the number of people who got fracture in their hand and leg in different months due to road accident.

■ People who got fracture in hand
■ People who got fracture in leg
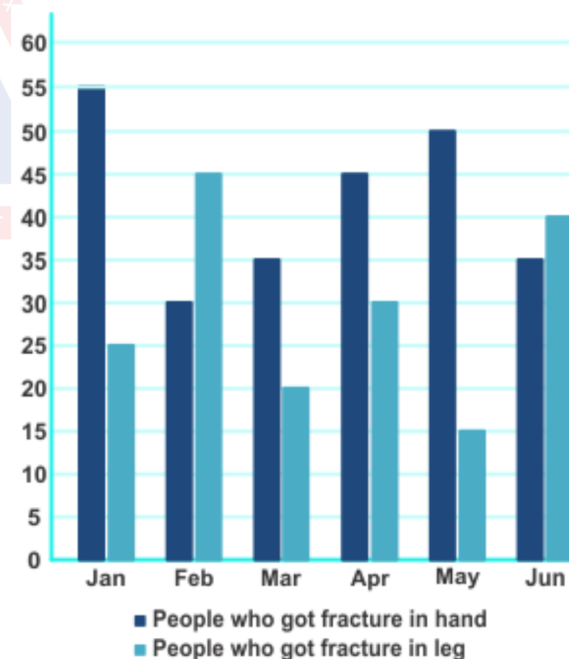
Persons who got fracture in their hand in Feb and Apr together is what percent more than persons who got fracture in their leg in Feb and May together?
1. 35%

2. 20%
3. 25%
4. 20%

Q:25 The ratio of the monthly income of P and Q is 7 : 6 and their monthly expenditure is 5 : 4. Both save Rs.4000 per month. Find the sum of their monthly income.
1. Rs.26000
2. Rs.24000
3. Rs.18000
4. Rs.13000

Q:26 Words given on the left side of (::) are related to each other by some Logic/Rule/Relation. Select the missing word/word pair on the right side of (::) from the given alternatives based on the same Logic/Rule/Relation.
Lion : Den :: Bear : Cave :: Cow : ?
1. Tree
2. House
3. Shed
4. Stable

Q:27 In the following question, select the related number from the given alternatives.
27 : 196 :: 56 :
1. 900
2. 500
3. 800
4. 600

Q:28 In the following question, select the related letters from the given alternatives.
CFRO : GKVT :: DAIE : ?
1. HGFR
2. ZSAQ
3. QWEA
4. HFMJ

Q:29 Select the option which is related to the fifth letter cluster in the same way as the fourth letter cluster is related to the third and the second letter cluster is related to the first.
PGH : RIJ :: CDF : EFH :: MBT : ?
1. KJH
2. CFE

3. OSW
4. ODV

Q:30 Find the wrong term in the given series.
CD, DE, GC, LD, SG
1. LD
2. GC
3. DE
4. SG

Q:31 Find the wrong number in the given series.
700, 145, 34, 11.5, 7.36, 6.472

1. 7.36
2. 145
3. 6.472
4. 11.5

Q:32 Which of the following term will replace the question mark (?) in the given series?
G56N, J60M, M51L, P67K, S42J, ?
1. V78I
2. V32Q
3. V67A
4. V23A

Q:33 Four number-pairs are given, three of which are alike in a certain manner, and one is different. Choose a different number-pair.
1. 678 : 769
2. 543 : 452
3. 427 : 536
4. 672 : 581

Q:34 Find the odd one out.
1. DF9
2. JL15
3. VX1
4. HJ12

Q:35 Which of the following sequence represents the correct dictionary order of the following words?
1. Syndicate
2. Symbolic
3. Symphony
4. Symmetry
5. Syndrome

4

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

Q:36 Study the given pattern carefully and select the number that can replace the question mark (?) in it.

4	5	6	8
2	4	4	1
7	4	3	2
?	4	2	15

1. 12
2. 24
3. 34
4. 21

Q:37 In a certain code language, 'Mango is very tasty' is written as 'la ja ta sa', 'Mango is a fruit' is written as 'ja sa op nm', and 'Apple is tasty' is written as 'sa ty ta'. How will 'very' be written in that language?
1. sa
2. ty
3. nm
4. la

Q:38 In a certain code language, 'DON' is coded as CPO, and 'FIRE' is coded as EHSD. How will 'CYST' be coded in that language?
1. ZBTU
2. BZTU
3. UTSZ
4. ZTUB

Q:39 If 'P * Q' means 'P is the son of Q',
'P @ Q' means 'P is the mother of Q',
'P % Q' means 'P is the brother of Q',
'P # Q' means 'P is the father of Q'.
Then which of the following expression shows L is the nephew of N?
1. Y @ L * S # N
2. Y @ L * S % N
3. N % S @ Y * L
4. None of these

Q:40 If 'K©L' means 'K is the son of L', 'K#L' means 'K is the brother of L', 'K&L' means 'K is the daughter of L', 'K@L' means ' K is the wife of L'. Then which of the following expression shows D is the father-in-law of G?
1. G @ F # B & C@D
2. G @ F # D & C@ B
3. G @ F & B @ C # D
4. None of these

Q:41 In each question below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows the given statements disregarding commonly known facts. Give answer-
A. Only conclusion I follows
B. Only conclusion II follows
C. Either conclusion I or II follows
D. Neither conclusion I nor II follows
Statements:
Some cats are Dog.
No Cat is a Lion.
All Lions are Tiger.
Conclusions:
I. All Cats being Tiger is a possibility.
II. No Dog is a Lion.
1. A
2. B
3. C
4. D

Q:42 In each of the questions below are given three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts. Give Answer
A. Only Conclusion I follows
B. Only Conclusion II follows
C. Either Conclusion I or Conclusion II follows
D. Both Conclusions I and II follow
Statements:
No Jobs are Interview

5

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Some Interviews are Select.
All Select are Reject
Conclusions:
I. No Reject is Job.
II. All Job are Select is a possibility.
1. A
2. B
3. C
4. D

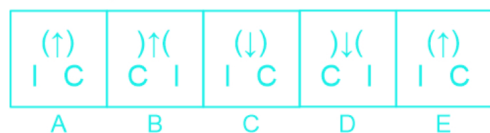**Q:43** Select the figure among the given option that can replace the question mark(?) in the following series.
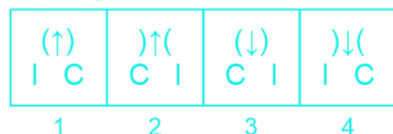

1. 1
2. 2
3. 3
4. 4

Q:44 Select the figure among the given option that will be the next figure in the given series.
Problem figure:

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

Q:45 Which of the following interchanges signs would make the given equation correct?
72 − 6 × 9 ÷ 3 + 35 = 55
1. −, ×
2. ×, ÷
3. −, +
4. +, ÷

Q:46 Select the correct combination of mathematical signs to sequentially replace the * signs.
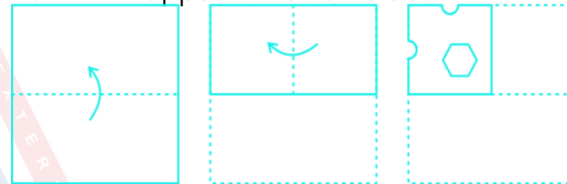16 * 40 * 8 * 5 * 2 = 11
1. +, ÷, −, ×
2. ×, ÷, −, +
3. −, +, ÷, ×
4. +, −, ×, ÷

Q:47 If '+' means '−', '−' means '×', '×' means '÷', and '÷' means '+', then what will be the value of the following expression?
36 ÷ 27 × 3 + 5 − 4 = ?
1. 25
2. 30
3. 35
4. 40

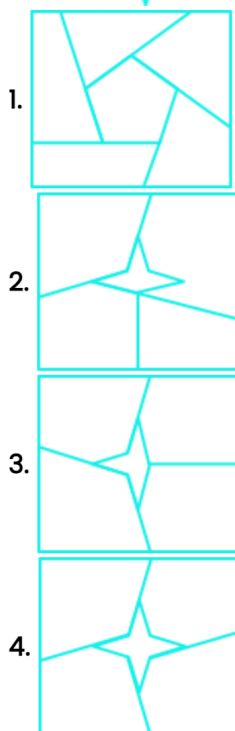**Q:48** A paper is folded and cut as shown below. How will it appear when unfolded?

1.
2.
3.
4.

Q:49 From the given answer figures, select the one in which the question figure is hidden/embedded.

1.

2.

3.

4.

Q:50 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

1.
2.
3.
4.

Q:51 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No Improvement'.

Radha is <u>the tallest and fastest</u> student in the school.
1. a tallest and fastest
2. the tallest and a fastest
3. the tallest and the fastest
4. No Improvement

Q:52 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No Improvement'.

I had <u>a few</u> dresses in the wardrobe, so I wanted to go to the mall to buy them.
1. little
2. a little
3. No Improvement
4. few

Q:53 Fill in the blank with the most appropriate word.

The thief tried to _ _ _ _ _ _ _ _ _ my bag at the station.
1. stile
2. steal
3. steel
4. still

Q:54 Select the most appropriate option to fill in the blank.

Keats and Shelley were poets of the same period; they were _ _ _ _ _ _ _ _ _ _.
1. colleagues
2. associates
3. contemporaries
4. acquaintances

Q:55 Select the correct passive form of the given sentence.

It is time to serve dinner.
1. It is dinner time for serving.
2. It is time that dinner is serving.
3. It is time so dinner should be served.
4. It is time for dinner to be served.

Q:56 Select the correct indirect form of the given sentence.

Ragini said to her sister, "Please select one of these dresses.'
1. Ragini requested her sister to select one of these dresses.
2. Ragini requested her sister to please select one of those dresses.
3. Ragini requested her sister to select one of those dresses.
4. Ragini requested her sister that you should select one of those dresses.

Q:57 Select the most appropriate ANTONYM of the given word.
INITIATIVE
1. Advance
2. Enterprise
3. Idleness
4. Indifference

Q:58 Select the most appropriate ANTONYM of the given word.
ALCOHOLIC
1. Drunk
2. Addict
3. Teetotaller
4. Venom

Q:59 Select the INCORRECTLY spelt word.
1. Accident
2. Acclaim
3. Accomplish
4. Accomodation

Q:60 Select the INCORRECTLY spelt word.
1. Accommudative
2. Accompainiment
3. Accompany
4. Accomplice

Q:61 Select the most appropriate SYNONYM of the given word.
LABYRINTH
1. Maze
2. Rotating
3. Pacing
4. Wriggling

Q:62 Select the most appropriate SYNONYM of the given word.
CONGRUENT
1. Different
2. Identical
3. Parallel
4. Unfit

Q:63 Select the most appropriate meaning of the given idiom.
Fits and starts
1. Rarely
2. Disinterestedly
3. Irregularly
4. Regularly

Q:64 Select the most appropriate meaning of the given idiom.
Fell foul
1. Quarrel with
2. Felt annoyed with
3. Agreed with
4. Got into trouble with

Q:65 Select the word which means the same as the group of words given.
A place where a lot of people go on holiday or vacation
1. Casino
2. Museum
3. Resort
4. Sanatorium

Q:66 Select the word which means the same as the group of words given.
To mediate between two parties in a dispute
1. Interfere
2. Interact
3. Interrupt
4. Intercede

Direction 67 - 71 In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.
Communication is the _ _ _ _ _(1)_ _ _ _ _ of our society. It _ _ _ _(2)_ _ _ _ _ us to form

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connections, influence decisions, and motivate change. ____(3)_____ communication skills, the ability _____(4)_____ progress in the working world and in life, itself, would be ____(5)_____ impossible.

Q:67 Select the most appropriate option to fill in the blank number (1).
1. foundation
2. backbone
3. spunk
4. piller

Q:68 Select the most appropriate option to fill in the blank number (2).
1. allow
2. are allowing
3. allowed
4. allows

Q:69 Select the most appropriate option to fill in the blank number (3).
1. beides
2. with
3. without
4. along

Q:70 Select the most appropriate option to fill in the blank number (4).
1. to
2. for
3. of
4. about

Q:71 Select the most appropriate option to fill in the blank number (5).
1. more nearly
2. near
3. nearer
4. nearly

Q:72 Given below are four jumbled sentences. Select the option that gives their correct order.
A: One example of people who live in the desert is the Bedouin tribe.
B: Their traditional lifestyle has adapted to these extremely arid conditions.
C: They live in desert areas in the Middle East.
D: They have herds of animals that are adapted to living in desert conditions, such as camels.
1. ABCD
2. BCDA
3. ACBD
4. BDCA

Q:73 Given below are four jumbled sentences. Select the option that gives their correct order.
A: If it is not clear enough to express its meaning to the audience, it will become ineffective.
B: A speech should be clear and unambiguous so that the audience can understand it easily.
C: The message of the speech should be definite and relevant to the subject matter.
D: Clarity is an essential feature of a good speech.
1. ACBD
2. DCBA
3. ABDC
4. DBAC

Q:74 In the sentence identify the segment which contains the grammatical error.
We all make mistakes however, being unable to accepting a mistake is a bigger mistake.
1. to accepting a
2. We all make mistakes
3. however, being unable
4. mistake is a bigger mistake

Q:75 In the sentence identify the segment which contains the grammatical error.
Had she not known about the accident of her father she should have talked longer with me.
1. the accident of her father
2. talked longer with me
3. Had she not known about
4. she should have

Q:76 Recently a study conducted on The Great wall of China stating a living breathing shield of Biocrust is making the wall stronger. When was The Great Wall of China Built?
1. 220 BC
2. 220 AD
3. 400 AD
4. 400 BC

Q:77 In 1930, the first phase of the Civil Disobedience Movement, viz. the Salt Satyagraha, began with Mahatma Gandhi's marathon march from _ _ _ _ _ _ _ _ _ _ _.
1. Sabarmati
2. Dandi
3. Bombay
4. Delhi

Q:78 Kishtwar National Park is located in :
1. Jharkhand
2. Jammu and Kashmir
3. Himachal Pradesh
4. Uttarakhand

Q:79 Uri Dam of Jammu & Kashmir is located on which of the following river:
1. Ravi River
2. Jhelum River
3. Chenab River
4. Sind River

Q:80 Which of the following soils is the most infertile?
1. Alluvial
2. Desert
3. Black
4. Laterite

Q:81 Which among the following became the first Asian country to unveil plain cigarette packing to reduce the appeal of smoking?
1. China
2. Thailand
3. Vietnam
4. South Korea

Q:82 Who among the following formulates the monetary policy in India?
1. NITI Aayog
2. The Ministry of Statistics and Programme Implementation
3. Finance Commission of India
4. Reserve Bank of India

Q:83 Which of the following is a correct equation of motion?
1. $u = v + at^2$
2. $2s = (v - u)t$
3. $2s = 2ut + at^2$
4. $v^2 + u^2 = 2as$

Q:84 What is the full form of GNP?
1. Gramin Nigam Parishad
2. Gross National Product
3. Gross National Produce
4. Gramin Nisak Praman

Q:85 The Indian National Commission for Cooperation (INCCU) with UNESCO functions under which ministry?
1. Ministry of Culture
2. Ministry of Agriculture & Farmers Welfare
3. Ministry of Human Resource Development
4. Ministry of External Affairs

Q:86 Who was awarded the Rabindranath Tagore Literary Prize 2019 for the Novel 'Solo'?
1. Amitabh Ghosh
2. Rana Dasgupta
3. Jhumpa Lahiri
4. Nayanjyot Mukherjee

Q:87 With which sport is Dattu Bhokanal associated?
1. Kabaddi
2. Archery
3. Equestrian
4. Rowing

Q:88 What is the other name of Harappan civilization in Haryana?
1. Gherua
2. Sherpa
3. Seeswal
4. Topak

Q:89 The scientists at Natural History Museum of London have discovered the oldest disease causing bacteria called Potteromyces Asteroxylicola from Rhynie Chert in _ _ _ _ _ _ _ _.
1. Norway
2. Scotland
3. Finland

4. Ireland

Q:90 Which among the following articles gave special status to Jammu and Kashmir, recently declared as the temporary provision by the Supreme Court of India?
1. Article 368
2. Article 370
3. Article 356
4. Article 360

Q:91 The Moatsu Festival is a time of great rejoicing as the planting season comes to an end. It is celebrated by the Ao tribes of _ _ _ _ _ _ _ _ _.
1. Manipal
2. Meghalaya
3. Arunachal Pradesh
4. Nagaland

Q:92 Which of the following is a radioactive element?
1. Polonium
2. Carbon
3. Tungsten
4. Zinc

Q:93 Who among the following wins the 2023 Nobel Peace Prize?
1. Kiana Rahmani
2. Shiza Khan
3. Narges Mohammadi
4. Fatima Sheikh

Q:94 Who among the following won the FIVB Men's Volleyball Club World Championship 2023?
1. Itambe Minas
2. Sicoma Perugia
3. Suntory Sunbirds
4. Halkbank Spor Kulubu

Q:95 What is the outer coat of the seed that protects the embryonic plant?
1. Cotyledon
2. Micropyle
3. Radicle
4. Testa

Q:96 What is the currency of Thailand?
1. Dollar
2. Pound
3. Baht
4. Lira

Q:97 Which of the following tissues respond to stimulation and contract to provide movement?
1. Epithelial tissue
2. Connective tissue
3. Muscle tissue
4. Nervous tissue

Q:98 Which article states that there shall be a governor for each state?
1. 147
2. 124
3. 157
4. 153

Q:99 In which year did Emperor Akbar build the Buland Darwaja?
1. 1502
2. 1526
3. 1534
4. 1575

Q:100 When was Lok Sabha first constituted?
1. 1951
2. 1948
3. 1952
4. 1950

Answer Key

1. (4)	2. (1)	3. (2)	4. (1)	5. (3)
6. (2)	7. (3)	8. (2)	9. (4)	10. (2)
11. (3)	12. (2)	13. (3)	14. (2)	15. (2)
16. (3)	17. (4)	18. (4)	19. (4)	20. (1)
21. (1)	22. (3)	23. (3)	24. (3)	25. (1)
26. (3)	27. (1)	28. (4)	29. (4)	30. (4)
31. (4)	32. (1)	33. (4)	34. (4)	35. (4)
36. (2)	37. (4)	38. (2)	39. (2)	40. (1)
41. (1)	42. (2)	43. (1)	44. (2)	45. (3)
46. (1)	47. (1)	48. (2)	49. (4)	50. (1)
51. (3)	52. (4)	53. (2)	54. (3)	55. (4)
56. (3)	57. (4)	58. (3)	59. (4)	60. (1)
61. (1)	62. (2)	63. (3)	64. (4)	65. (3)
66. (4)	67. (2)	68. (4)	69. (3)	70. (1)
71. (4)	72. (3)	73. (4)	74. (1)	75. (4)
76. (1)	77. (1)	78. (2)	79. (2)	80. (2)
81. (2)	82. (4)	83. (3)	84. (2)	85. (3)
86. (2)	87. (4)	88. (3)	89. (2)	90. (2)
91. (4)	92. (1)	93. (3)	94. (2)	95. (4)
96. (3)	97. (3)	98. (4)	99. (4)	100. (3)

Answers and Solutions

Q:1 The correct answer is **Option 4** i.e. **26.93 m.**
Length of room = 20 m, Breadth of room = 10 m and, Height of room = 15 m
The length of the longest rod is the diagonal of the room
Diagonal of a cuboid = $\sqrt{[l^2 + b^2 + h^2]}$
Diagonal of cuboid = $\sqrt{[20^2 + 10^2 + 15^2]}$ m
$\Rightarrow \sqrt{[400 + 100 + 225]}$ m
$\Rightarrow \sqrt{725}$ m = 26.93 m
The maximum length of rod that can be placed is 26.93 m

Q:2 The correct answer is **option 1** i.e. **5/8.**
$(31/4) + (23/8) – 5 × 8 ÷ 4 = x$
$\Rightarrow (31/4) + (23/8) – 5 × 2 = x$
$\Rightarrow (31/4) + (23/8) – 10 = x$
$\Rightarrow 85/8 – 10 = x$
$\Rightarrow x = 5/8$

Q:3 The correct answer is **option 2** i.e. **36 km/hr.**
Let the initial speed of man i.e the speed at which he goes from house to office 6x km/hr

A/Q,
Total distance/speed = time
$\Rightarrow 180/5x – 180/6x = 1$
$\Rightarrow 36/x – 30/x = 1$
$\Rightarrow x = 6$
So, initial speed = $(6 × 6)$ = 36 km/hr

Q:4 The correct answer is **option 1** i.e. **10°.**
We know that the sum of all angles of a triangle is 180°
So, in triangle MNO
$\Rightarrow \angle M + \angle N + \angle O = 180°$
$\Rightarrow (4x – 10°) + (5x – 5°) + (3x + 15°) = 180°$
$\Rightarrow 12x = 180°$
$\Rightarrow x = 15°$
$\Rightarrow \angle O = (3x + 15°) = (3 × 15 + 15) = (45 + 15) = 60°$
$\Rightarrow \angle N = (5x – 5°) = (5 × 15 – 5) = (75 – 5) = 70°$
$\Rightarrow \angle N – \angle O = (70° – 60°) = 10°$

Q:5 The correct answer is **option 3** i.e. **105°.**
$\Rightarrow \angle ACB = 90°$ [angle on semicircle]
In triangle ABC
$\Rightarrow \angle ABC + \angle BCA + \angle CAB = 180°$
$\Rightarrow 35° + 90° + \angle CAB = 180°$
$\Rightarrow \angle CAB = 55°$
ABCD is a cyclic quadrilateral
$\Rightarrow \angle CAB + \angle CDB = 180°$
$\Rightarrow 55° + \angle CDB = 180°$
$\Rightarrow \angle CDB = 125°$
$\angle DCB = \angle CBA$ [AB || CD]
In triangle BCD
$\Rightarrow \angle BCD + \angle CDB + \angle DBC = 180°$
$\Rightarrow 35° + 125° + \angle DBC = 180°$
$\Rightarrow \angle DBC = 20°$
Value of $\angle CDB – \angle DBC$
$\Rightarrow 125° – 20° = 105°$

Q:6 The correct answer is **option 2** i.e. **18.**
Concept used:
Numbers = $a^x × b^y × c^z$
Number of factors = $(x + 1)(y + 1)(z + 1)$
Where a, b, and c are the prime factors
Calculations:
The number which is divisible by p = $(547 – 7)$ = 540

Prime factorization of $540 = 3^3 \times 2^2 \times 5$
Total number of factors of $540 = (3 + 1)(2 + 1)(1 + 1) = 24$
Factors below 7 are 1, 2, 3, 4, 5 and 6
Hence required number of values of $p = (24 - 6) = 18$

Q:7 The correct answer is **option 3** i.e. **3281/81.**
$\Rightarrow 41\sec\theta - 40\tan\theta = 9$
$\Rightarrow 41/9 \sec\theta - 40/9 \tan\theta = 1$
$\Rightarrow \sec^2\theta - \tan^2\theta = 1$
So, the value of $\sec\theta = 41/9$
$\Rightarrow \tan\theta = 40/9$
So, the value of $\sec^4\theta - \tan^4\theta = (\sec^2\theta - \tan^2\theta)(\sec^2\theta + \tan^2\theta)$
$\Rightarrow 1 \times \{(41/9)^2 + (40/9)^2\}$
$\Rightarrow 1681/81 + 1600/81 = 3281/81$

Q:8 The correct answer is **option 2** i.e. **38 years.**
Old Sum = 11 × 20 = 220
When new player is added to GT the average increased by 1.5
New Sum = 12 × 21.5 = 258
Age of new player = $(258 - 220) = 38$
Hence, the age of the new player is 38 years

Q:9 The correct answer is **option 4** i.e. **36.5 years.**
The average age of 11 players in MI = 25 years
Sum = 11 × 25 = 275
Two players aged 30 and 32 years are replaced
Sum decreased by = 275 - (30 + 32) = 213
The new average age is 26
Sum = 11 × 26 = 286
Difference in both averages = (286 - 213) = 73
Average of replaced players = 73/2 = 36.5 years

Q:10 The correct answer is **option 2** i.e. **1.**
Since, $\{x + (1/x)\} = \sqrt{3}$
Cubing both sides we get
$\Rightarrow x^3 + (1/x^3) + 3 \times x \times (1/x) \times \{x + (1/x)\} = 3\sqrt{3}$
$\Rightarrow x^3 + (1/x^3) = 0$
$\Rightarrow x^3 = -(1/x^3)$
$\Rightarrow x^6 = -1$
So, $x^{162} + x^{312} + x^{468} = (x^6)^{27} + (x^6)^{52} + (x^6)^{78}$
$\Rightarrow (-1)^{27} + (1)^{52} + (1)^{78}$
$\Rightarrow -1 + 1 + 1 = 1$

Q:11 The correct answer is **option 3** i.e. **175%.**
Let the speed of the boat in still water be '11x' km/hr and the speed of the current be '3x' km/hr
So,
Upstream speed, x - y = (11x - 3x) = 8x km/h
Speed downstream, x + y = 11x + 3x = 14 km/h
$\Rightarrow$ % = 14/8 × 100 = 175 %

Q:12 The correct answer is **option 2** i.e. **26.**
Total marked price = 200 × Rs 30 + 160 × Rs 25 = Rs 10000
S.P. of Rs 30 marked notebook = 30 × (100 − 30)/100 = Rs 21
S.P. of Rs 25 notebook = 25 × (100 − 20)/100 = Rs 20
Total sales = 200 × 21 + 160 × 20 = Rs 7400
Overall discount = (M.P. − S.P.)/M.P. × 100
$\Rightarrow$ (10000 − 7400)/10000 × 100 = 26%

Q:13 The correct answer is **option 3** i.e. **58%.**
S.P. of D = 64/360 × 90 = Rs 16
S.P. of E = 60/360 × 90 = Rs 15
C.P. of D = 16 × 100/(100 + 60) = Rs 10
Sales of 50 wrongly sold products = 50 × S.P. of E = 750
Sales of 200 right products = 200 × 16 = 3200
Total sales = 3200 + 750 = Rs 3950
Total cost of 250 products of D = 250 × 10 = Rs 2500
Profit% = (Sales − Cost)/Cost × 100
$\Rightarrow$ (3950 − 2500)/2500 × 100
$\Rightarrow$ 58%

Q:14 The correct answer is **option 2** i.e. **46.**
Given :
Father : son (age) = 5 : 1
The average of their age is 24
Formula used :
Average = Sum of observations/number of observations ------ (1)
Calculations :
Using equation (1), we get
The sum of the ages of father and son = 24 × 2 = 48
Let the age of father and son be 5x and x
Sum of father's and son's age = 5x + x
$\Rightarrow$ 5x + x = 48

$\Rightarrow 6x = 48$
$\Rightarrow x = 8$
Father's age after 6 years = 5x + 6
Put the value of x
$\Rightarrow 5 \times 8 + 6 = (40 + 6) = 46$

Q:15 The correct answer is **option 2** i.e. **4%.**
As we know,
Expenditure = Price × Consumption
Let the expenditure, price, and consumption be 1 unit initially
New expenditure = 1.2
New price = 1.25
New consumption = 1.2/1.25
$\Rightarrow$ 0.96 or a 4% decrease

Q:16 The correct answer is **option 3** i.e. **16.**
Interest = (Amount - Principle)
Interest = (864000 - 172800) = 691200
S.I = (p × r × j)/100 (T = j)
$\Rightarrow 691200 = (172800 \times 25 \times j)/100$
$\Rightarrow 6912 = 432 \times j$
$\Rightarrow j = 16$ years

Q:17 The correct answer is **option 4** i.e. **362.**
Total work = (The number of workers × time)
543 workers can complete the work in 35 days but, after 30 days some workers left and,
The remaining work completed in 15 days
Let the number of workers who left = x
The remaining days = (35 - 30) = 5 days
The work of the remaining 5 days is completed by the (543 - x) workers in 15 days
$\Rightarrow (543 \times 5) = (543 - x) \times 15$
$\Rightarrow 181 = (543 - x)$
$\Rightarrow x = (543 - 181) = 362$

Q:18 The correct answer is **option 4** i.e. **Rs 220.**
Suppose the prices of a book and pen are 'C' and 'P' respectively.
As given:
$\Rightarrow 7C + 5P = 330$ .....(i)
$\Rightarrow 2C + 7P = 150$ .....(ii)
After solving eq(i) and eq(ii):
$\Rightarrow C = 40$ and P = 10
So,

Total price of 5 books and 2 pens
$\Rightarrow 5 \times 40 + 2 \times 10$
$\Rightarrow 200 + 20 = $ Rs. 220

Q:19 The correct answer is **option 4** i.e. **14/3**.
$3 \times 2 \div 3$ of $12 - 3 \div 2 \times (2 - 3) \times 2 + 3 \div 2$
$\Rightarrow 3 \times 2 \div 3$ of $12 - 3 \div 2 \times -1 \times 2 + 3 \div 2$
$\Rightarrow 3 \times 2 \div 36 - 3 \div 2 \times -1 \times 2 + 3 \div 2$
$\Rightarrow 3 \times (2/36) - (3/2) \times -1 \times 2 + 3/2$
$\Rightarrow 1/6 + 3 + 3/2 = 14/3$

Q:20 The correct answer is **Option 1** i.e. **4 : 3.**
Increase in perimeter = The lengths of the two diagonals
Let the length and breadth be kx and x respectively
Length of diagonal = $\sqrt{(l^2 + b^2)} = x\sqrt{(k^2 + 1)}$
Original perimeter before cutting = 2(l + b) = 2x(k + 1)
% increase = Length of two diagonal/Original perimeter × 100
$500/7 = 2 \times x \times \sqrt{(k^2 + 1)}/\{2x (k + 1)\} \times 100$
$\Rightarrow 5/7 = \sqrt{(k^2 + 1)}/(k + 1)$
Squaring on both sides
$\Rightarrow 25/49 = (k^2 + 1)/(k^2 + 2k + 1)$
$\Rightarrow 25k^2 + 50k + 25 = 49k^2 + 49$
$\Rightarrow 24k^2 - 50k + 24 = 0$
$\Rightarrow 12k^2 - 25k + 12 = 0$
$\Rightarrow 12k^2 - 16k - 9k + 12 = 0$
$\Rightarrow 4k (3k - 4) - 3(3k - 4) = 0$
$\Rightarrow (4k - 3)(3k - 4) = 0$
$\Rightarrow k = 4/3 = 4 : 3 [\because$ Length > breadth]

Q:21 The correct answer is **option 1** i.e. **10%.**
C.I - S.I = $P(R/100)^2$ (for 2 years)
where C.I. is compound interest, S.I. is simple interest, R is rate and T is time
S.I. = (P × R × T)/100
$\Rightarrow 450 = (P \times R \times 2)/100$ i.e.
$\Rightarrow 2PR/100 = 450$ ....(I)
Now using the formula for the difference of interest for 2 years
$\Rightarrow 472.5 - 450 = P(R/100)^2$
$\Rightarrow 22.5 = (PR/100)(R/100)$
from (I)
$\Rightarrow 22.5 = 225(R/100)$
$\Rightarrow 22.5/225 = R/100$
$\Rightarrow R = 10\%$

Q:22 The correct answer is **Option 3** i.e. **5.**
Let the amount of time taken by A to complete the remaining work be x days
A can do one-third work in 4 days
Amount of work done by A in x days = $1/3 × ¼ × x$ = $x/12$
B can complete 25% of work in 4 days
Amount of work done by B in 4 days = $1/4$ (25%)
Amount of work done by C in 4 days = $4/12 = 1/3$
Total work = $1/3 + 1/4 + x/12$
$\Rightarrow 1 = (4 + 3 + x)/12$
$\Rightarrow 12 = 7 + x$
$\Rightarrow x = 5$ days

Q:23 The correct answer is **option 3** i.e. **Rs. 10000.**
Suppose Ravi bought the mobile at Rs. x
Ravi sold the mobile to Rohan at 11% profit
So,
CP for Rohan = 1.11x
$\Rightarrow x × 111/100 = 1.11x$
Rohan sold the phone to Sohan at 12% profit
So,
CP for Sohan = $1.11 × 1.12 × x$
$\Rightarrow 1.11x × 112/100$
$\Rightarrow 1.11 × 1.12 × x$
Sohan paid Rs. 12432 for the mobile
So,
$\Rightarrow 1.11 × 1.12 × x = 12432$
$\Rightarrow x = 10000$
Hence, Ravi bought the mobile at Rs. 10000

Q:24 The correct answer is **option 3** i.e. **25%.**
Persons who got fracture in their hand in Feb and Apr together = 30 + 45 = 75
Persons who got fracture in their leg in Feb and May together = 45 + 15 = 60
Hence,
Required percent = $[(75 − 60)/60] × 100 = 25\%$

Q:25 The correct answer is **option 1** i.e. **Rs.26000.**
Given :
The ratio of the monthly income of P and Q is 7 : 6
monthly expenditure is in the ratio of 5 : 4.
Savings = Rs 4000
Concept used :
Income = expenditure + savings   ------ (1)

Calculations :
Let the monthly income of P and Q be 7x and 6x
Let the monthly expenditure of P and Q be 5y and 4y
Using concept (1), we get
$\Rightarrow 7x - 5y = 4000$ ------ (2)
$\Rightarrow 6x - 4y = 4000$ ------ (3)
On solving equations (2) and (3)
$\Rightarrow x = y$, so
$\Rightarrow 7x - 5x = 4000$
$\Rightarrow 2x = 4000$
$\Rightarrow x = 2000$
Total monthly income of P and Q = 7x + 6x
$\Rightarrow 7 × 2000 + 6 × 2000$
$\Rightarrow 14,000 + 12000 = Rs 26,000$

Q:26 The correct answer is **Option 3** i.e. **Shed**
Lion : Den :: Bear : Cave :: Cow : ?
Lion lives in Den and the Bear lives in the Cave.
Similarly, a Cow lives in Shed
Hence, the correct answer is **Shed.**

Q:27 The correct answer is **Option 1** i.e. **900**
The pattern followed here:
27 : 196
$2 × 7 = 14 \Rightarrow (14)^2 = 196$
Similarly,
$5 × 6 = 30 \Rightarrow (30)^2 = 900$
Hence, the correct answer is **900.**

Q:28 The correct answer is **Option 4** i.e **HFMJ**
As we can see that
CFRO : GKVT :: DAIE : ?
C + 4 = G, F + 5 = K, R + 4 = V, O + 5 = T
Hence, similarly, the same pattern follows:
D + 4 = H, A + 5 = F, I + 4 = M, E + 5 = J
So, CFRO : GKVT :: DAIE : HFMJ
Hence, the correct answer is **HFMJ.**

Q:29 The correct answer is **Option 4** i.e. **ODV**
The logic followed here is,
PGH : RIJ :: CDF : EFH :: MBT : ?
P → P + 2 = R
G → G + 2 = I
H → H + 2 = J
Similarly,

CDF : EFH
C → C + 2 = E
D → D + 2 = F
F → F + 2 = H
So, MBT : ?
M → M + 2 = O
B → B + 2 = D
T → T + 2 = V
Hence, the correct answer is **ODV**.

Q:30 The correct answer is **Option 4** i.e. **SG**
Given:
CD, DE, GC, LD, SG
Pattern:
C **+ 1** = D, D **+ 1** = E
D **+ 3** = G, E **− 2** = C
G **+ 5** = L, C **+ 1** = D
L + 7 = S, D − 2 = B
Here, the term **SG** is wrong.
Hence, **SG** is the correct answer.

Q:31 The correct answer is **Option 4** i.e. **11.5**
Given series: 700, 145, 34, 11.5, 7.36, 6.472
The pattern of the series is:
700 ÷ 5 + 5 = 145
145 ÷ 5 + 5 = 34
34 ÷ 5 + 5 = **11.8**
11.8 ÷ 5 + 5 = 7.36
7.36 ÷ 5 + 5 = 6.472
So, **11.5** is the wrong number in the given series.
Hence, the correct answer is **11.5**.

Q:32 The correct answer is **Option 1** i.e **V78I**
Given series = G56N, J60M, M51L, P67K, S42J, ?
The logic for numbers:
Series Pattern
$56 + 2^2 = 60$
$60 − 3^2 = 51$
$51 + 4^2 = 67$
$67 − 5^2 = 42$
$42 + 6^2 = 78$
The logic for letters =
G + 3 = J, J + 3 = M, M + 3 = P, P + 3 = S, **S + 3 = V**
N − 1 = M, M − 1 = L, L − 1 = K, K − 1 = J, **J − 1 = I**
So, the next term is V78I.
Hence, the correct answer is **V78I**.

Q:33 The correct answer is **Option 4** i.e. **672 : 581**
The pattern followed here is:
One is added to all even digits, and one is subtracted from all odd digits of the 1st number to get the 2nd number.
In option (1): 678 : 769
[(6 + 1) (7 − 1) (8 + 1)] = 769
In option (2): 543 : 452
[(5 − 1) (4 + 1) (3 − 1)] = 452
In option (3): 427 : 536
[(4 + 1) (2 + 1) (7 − 1)] = 536
All combination of the number follows the above pattern except for:
In option (4) 672 : 581
[(6 + 1) (7 − 1) (2 + 1)] = 763
Hence, **672 : 581** is the correct answer.

Q:34 The correct answer is **Option 4** i.e. **HJ12**.
DF9 → D + 2 = F → F + 3 = I (9)
JL15 → J + 2 = L → L + 3 = O (15)
VX1 → V + 2 = X → X + 3 = A (1)
HJ12 → H + 2 = J → J + 3 = M (13) NOT 12
Hence, the correct answer is **HJ12**.

Q:35 The correct answer is **Option 4** i.e. **2, 4, 3, 1, 5**
The correct dictionary order will be:
2. Symbolic
4. Symmetry
3. Symphony
1. Syndicate
5. Syndrome
So, **2, 4, 3, 1, 5** represent the correct dictionary order.
Hence, the correct answer is **2, 4, 3, 1, 5**.

Q:36 The correct answer is **Option 2** i.e. **24**
The logic used here is:
1st column: 4, 2, 7, ?
$(4 × 7) − 2^2 = 28 − 4 = 24$
2nd column: 5, 4, 4, 4
$(5 × 4) − 4^2 = 20 − 16 = 4$
3rd column: 6, 4, 3, 2
$(6 × 3) − 4^2 = 18 − 16 = 2$
4th column: 8, 1, 2, 15
$(8 × 2) − 1^2 = 16 − 1 = 15$
Hence, the correct answer is **24**.

Q:37 The correct answer is **Option 4** i.e. **la**
Here, from the given codes are:

Mango	is	very	tasty	——	la	ja	ta	sa
Mango	is	a fruit		——	ja	sa	op	nm
Apple	is	tasty		——	sa	ty	ta

Is- sa
Tasty- ta
Apple- ty
Mango- ja
Very- la
a/fruit- op/nm
So, 'Very' is coded as 'la'.
Hence, the correct answer is **la**.

Q:38 The correct answer is **Option 2** i.e. **BZTU**
Code for word:
If a letter appears before K then subtract 1 in the English alphabetical series
If a letter appears after K then add 1 in the English alphabetical series
DON :
D → D - 1 = C
O → O + 1 = P
N → N + 1 = O
FIRE:
F → F - 1 = E
I → I - 1 = H
R → R + 1 = S
E → E - 1 = D
CYST:
C → C - 1 = B
Y → Y + 1 = Z
S → S + 1 = T
T → T + 1 = U
Hence, the correct answer is **BZTU**

Q:39 The correct answer is **Option 2** i.e. **Y @ L * S % N**
Option 1:
Y @ L - Y is the mother of L
L * S - L is the son of S
S # N - S is the father of N
Clearly, L is the brother of N.
Option 2:
Y @ L - Y is the mother of L

L * S - L is the son of S
S % N - S is the brother of N
Family tree-
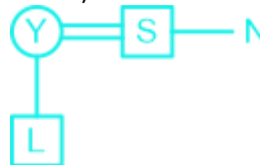
Clearly, L is the nephew of N.
There is no need to solve further options.
Hence, the correct answer is **Y @ L * S % N**.

Q:40 The correct answer is **Option 1** i.e. **G @ F # B & C@D**
Option 1:
G @ F - G is the wife of F
F # B - F is the brother of B
B & C – B is the daughter of C
C @ D – C is the wife of D
Family Tree-
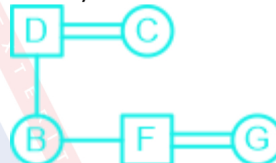
Clearly, D is the father-in-law of G.
There is no need to solve further options.
Hence, the correct answer is **G @ F # B & C@D**.

Q:41 The correct answer is **Option 1** i.e. **A**
Possible diagram from the above statements-
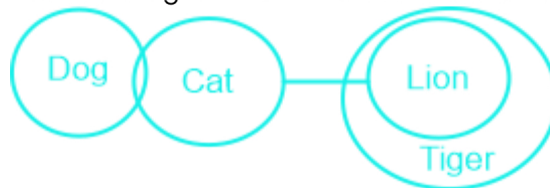
Conclusions:
I. All Cat being Tiger is a possibility: **True** - (No direct relation between cat and tiger, hence in case of possibility it is true)
II. No Dog is a Lion: **False** - (No direct relation between dog and lion).
Hence the correct answer is **A**.

Q:42 The correct answer is **Option 2** i.e. **B**

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Possible diagram from the above statements-
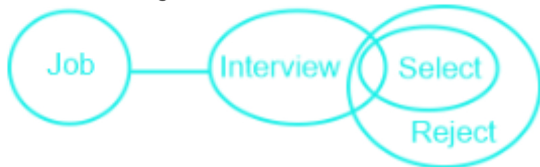
Conclusions:
I. No Reject is Job - **False** - No direct relation between reject and job.
II. All Job are Select is a possibility - **True** - No direct relation between Job and Select.
Hence the correct answer is **B.**

Q:43 The correct answer is **Option 1** i.e. **2.**
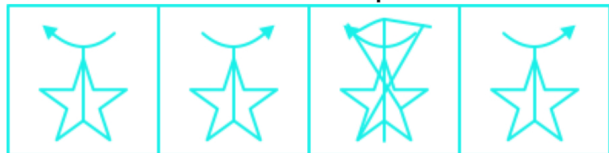
The logic used here is: The image flips horizontally or (mirror image) once and it remains the same in the next step. So, in the next figure, the correct position of all elements will be the same as in option 2.
Hence, the correct answer is **1.**

Q:44 The correct answer is **Option 2** i.e. **2.**
The logic used here is:
1. The letter I and C are changing their positions alternatively.
2. The bracket sign ( ) becomes inverse in the next figure.
3. The arrow becomes two times upwards and then two times downwards and it continues this pattern.
Hence, the correct answer is **2.**

Q:45 The correct answer is **Option 3** i.e. **− and +**
Given equation: $72 - 6 \times 9 \div 3 + 35 = 55$
Option 3: − and +
After interchanging the expression becomes:
$72 + 6 \times 9 \div 3 - 35 = 55$
$= 72 + 6 \times 3 - 35$
$= 72 + 18 - 35$
$= 90 - 35$
$= 55$ is equal to 55.
Hence, the correct answer is − **and +.**

Q:46 The correct answer is **Option 1** i.e. **+, ÷, −, ×**
Given the equation: $16 * 40 * 8 * 5 * 2 = 11$
Option 1: +, ÷, −, ×
$16 + 40 \div 8 - 5 \times 2 = 11$
$= 16 + 5 - 10$
$= 21 - 10$
$= 11$ is equal to 11.
As we got our answer, so there is no need to check further options.
Hence, the correct answer is **+, ÷, −, ×.**

Q:47 The correct answer is **Option 1** i.e. **25.**
As per the question
$36 \div 27 \times 3 + 5 - 4$ can be decoded as
$36 + 27 \div 3 - 5 \times 4$
$= 36 + 9 - 20$
$= 45 - 20$
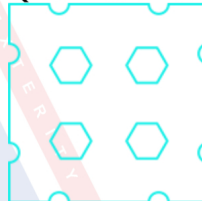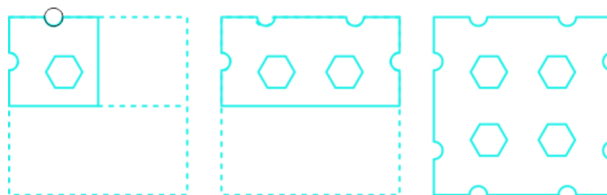$= 25$
Hence, the correct answer is **25.**

Q:48 The correct answer is **Option 2** i.e.

As given in the figure, we need to fold it in a book-folding manner and Option 2 would appear when unfolded.

Hence, **Option 2** is the correct answer.

Q:49 The correct answer is **Option 4** i.e.

After observing the given diagram carefully, option figure 4 has the given embedded figure.

Hence, **Option 4** is correct.

Q:50 The correct answer is **Option 1** i.e.

R24P52

In a plane mirror, a mirror image is a reflected duplication of an object that appears almost identical, but it is reversed in the direction perpendicular to the mirror surface. As an optical effect, it results from the reflection of substances such as a mirror or water.

M
R Z 4 P 5 2 | 2 5 4 9 4 5 R
N

Hence, **Option 1** is the correct answer.

Q:51 The correct answer is **option 3** i.e. **the tallest and the fastest.**
- Article '**The**' is used before the superlative form of the adjective.
- The chosen option follows the given rules hence, it will **IMPROVE** the statement correctly.

Correct Sentence:-
Radha is **the tallest and the fastest** student in the school.

Q:52 The correct answer is **option 4** i.e. **few.**
- **Few** – hardly any (negative), **a few** – some (positive), **the few** – not many, but all of those.
- The statement the negative sense hence, '**Few**' will be the correct choice.
- The chosen option follows the given rules hence, it will **IMPROVE** the statement correctly.

Correct Sentence:-
I had **few** dresses in the wardrobe, so I wanted to go to the mall to buy them.

Q:53 The correct answer is **option 2** i.e. **steal.**

Let's have a look at the meaning of the given options:-
- **steal**- to take something from a person, shop, etc. without permission and without intending to return it or pay for it.
- **stile**- an arrangement of steps that allows people but not animals to climb over a fence or wall.
- **steel**- a very strong metal that is made from iron mixed with another substance.
- **still**- continuing until now or until the time you are talking about and not finishing.

'**Steal**' which means '**to take something without permission**' fits in the context appropriately.
Correct Sentence:-
The thief tried to ***steal*** *my bag at the station.*

Q:54 The correct answer is **option 3** i.e. **contemporaries.**
Meaning of the given words:
- colleagues: a person with whom one works in a profession or business.
- associates: connect (someone or something) with something else in one's mind.
- contemporaries: a person or thing living or existing at the same time as another.
- acquaintances: a person one knows slightly, but who is not a close friend.

From the meaning of the given words, we can infer that the best suitable synonym is 'contemporaries'.
Hence, the chosen option is correct.

Q:55 The correct answer is **option 4** i.e. **It is time for dinner to be served.**
Active voice- It + is + time + to + v1 + object.
Passive voice- It + is + time + for + object + to be + Past Participle.
As the chosen option follows this structure it will be the correct answer.

Q:56 The correct answer is **option 3** i.e. **Ragini requested her sister to select one of those dresses.**
- As the reported speech is in '**Imperative sentence**' we need to make changes according to this.
- There will be a change in the reporting verb and it will be changed into '**Requested**'.
- '**To + v1**' will be used at the place of the

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'Inverted comma'.
- 'Please' will be removed from the statement.
- 'These' will be changed into 'Those'.

As all the rules are followed by the chosen option it will be correct.

Q:57 The correct answer is **option 4** i.e. **Indifference**.

Let's have a look at the meaning of the given options:-
- **Initiative**- official action that is taken to solve a problem or improve a situation.
- **Advance**- to make progress or help something make progress.
- **Enterprise**- a new plan, project, business, etc.
- **Idleness**- the state of not working or being used.
- **Indifference**- a lack of interest or feeling towards somebody/something.

As the chosen option expresses the opposite meaning of the given word it will be correct.

Q:58 The correct answer is **option 3** i.e. **Teetotaller**.

Let's have a look at the meaning of the given options:-
- **Alcoholic**- containing/drinking alcohol
- **Drunk**- having the faculties impaired by alcohol.
- **Addict**- a person who cannot stop taking or doing something harmful.
- **Teetotaller**- the practice or promotion of complete personal abstinence from alcoholic beverages.
- **Venom**- the poisonous liquid that some snakes, spiders, etc. produce when they bite or sting you.

As the chosen option expresses the opposite meaning of the given word it will be correct.

Q:59 The correct answer is **option 4** i.e. **Accomodation**.

Let's have a look at the meaning of the given options:-
- **Accident**- an unpleasant event that happens unexpectedly and causes damage, injury or death.
- **Acclaim**- to express a very high opinion of something/somebody.

- **Accomplish**- to succeed in doing something difficult that you planned to do.
- **Accommodation**- to have enough space for somebody/something, especially for a certain number of people.

As the chosen option is incorrectly spelt it will be the correct answer.

Q:60 The correct answer is **option 1** i.e. **Accommudative**.

Correct spelling of the misspelt word is: ACCOMMODATIVE

Let's have a look at the meaning of the given options:-
- **Accommodative**- willing to fit in with someone's wishes or needs.
- **Accompaniment**- something that goes together with another more important thing.
- **Accompany**- to go together with somebody/something.
- **Accomplice**- a person who helps somebody to do something bad, especially a crime.

As the chosen option is incorrectly spelt it will be the correct answer.

Q:61 The correct answer is **option 1** i.e. **Maze**.

Let's have a look at the meaning of the given options:-
- **Labyrinth**- a complicated set of paths and passages, through which it is difficult to find your way.
- **Maze**- a system of paths that are designed to confuse you so that it is difficult to find your way out.
- **Rotating**- to turn in circles around a central point; to make something do this.
- **Pacing**- to walk up and down in the same area many times, especially because you are nervous or angry.
- **Wriggling**- to move from side to side with small quick movements; to make something do this.

As the chosen option expresses the best meaning of the given word it will be correct.

Q:62 The correct answer is **option 2** i.e. **Identical**.

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Let's have a look at the meaning of the given options:-

Congruent- having exactly the same size and shape.

Different- not the same.

Identical- exactly the same as; similar in every detail.

Parallel- (used about two lines, etc.) with the same distance between them for all their length.

Unfit- not suitable or not good enough for something.

As the chosen option expresses the best meaning of the given word it will be correct.

Q:63 The correct answer is **option 3** i.e. **Irregularly.**
The meaning of the given idiom is:-
Fits and starts- Irregularly.
As the meaning of the given idiom is the same as the chosen option it will be correct.

Q:64 The correct answer is **option 4** i.e. **Got into trouble with.**
The meaning of the given idiom is:-
Fell foul- Got into trouble with.
As the meaning of the given idiom is the same as the chosen option it will be correct.

Q:65 The correct answer is **option 3** i.e. **Resort.**
Let's have a look at the meaning of the given options:-
- **Casino-** a place where people play games in which you can win or lose money, such as roulette.
- **Museum-** a building where collections of valuable and interesting objects are kept and shown to the public.
- **Resort-** a place where a lot of people go on holiday.
- **Sanatorium-** a medical facility for long-term illness, most typically associated with the treatment of tuberculosis.

As the chosen option expresses the meaning of the given group of words it will be the correct answer.

Q:66 The correct answer is **option 4** i.e. **Intercede.**
Let's have a look at the meaning of the given options:-

- **Interfere-** to get involved in a situation that does not involve you and where you are not wanted.
- **Interact-** (used about people) to communicate or mix with somebody, especially while you work, play or spend time together.
- **Interrupt-** to say or do something that makes somebody stop what he/she is saying or doing.
- **Intercede-** intervene on behalf of another.

As the chosen option expresses the meaning of the given group of words it will be the correct answer.

Q:67 The correct answer is **option 2** i.e. **backbone.**
Let's have a look at the meaning of the given options:-
- **backbone-** the most important part of something.
- **foundation-** a layer of bricks, etc. under the surface of the ground that forms the solid base of a building.
- **spunk-** brave determination and confidence even in discouraging situations.
- **piller-** a strong column made of stone, metal, or wood that supports part of a building.

'**Backbone**' which means '**the most important part of something**' fits the given context appropriately.
Hence, the chosen option will be correct.

Q:68 The correct answer is **option 4** i.e. **allows.**
- **Subjects** and **verbs** must **AGREE** with one another in number (**singular or plural**). Thus, if a **subject** is singular, its **verb** must also be singular; if a **subject** is plural, its **verb** must also be plural.
- The subject of the given subject is '**It**' which is singular hence, we need to use a singular verb here.
- The paragraph is in the present tense hence '**Allowed**' will not be the correct choice.

Hence, the chosen option will be correct.

Q:69 The correct answer is **option 3** i.e. **without.**
- The statement is trying to convey the meaning that if there will be no communication, everything will be impossible

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in our society.
- **Without**- not having or showing something.

Hence, the chosen option will be correct.

Q:70 The correct answer is **option 1** i.e. **to**.
  - '**Progress**' is a verb (first form) and '**To + v1**' makes a correct structure of the infinitive that suits the blank appropriately.

Hence, the chosen option will be correct.

Q:71 The correct answer is **option 4** i.e. **nearly**.
  - '**Impossible**' is an adjective hence we need to use an adverb before it.
  - The chosen option '**nearly**' is an adverb that means '**almost; not completely or exactly**'.

Hence, the chosen option will be correct.

Q:72 The correct answer is **option 3** i.e. **ACBD**.
  - **Statement A** is independent and defines the theme of the paragraph '**Bedouin tribe**' hence, it will be the opening statement.
  - **Statement C** talks about the place where they live in a desert hence, it will come after A.
  - **Statement B** gives the reason why they are capable of living in the desert hence, it will come after **C**.
  - Finally, **D** will come at the end of the arrangement.
  - Now we have the final arrangement i.e. **ACBD**.

The chosen option is the same as the final arrangement hence, it will be correct.
Correct Arrangement:-
One example of people who live in the desert is the Bedouin tribe. They live in desert areas in the Middle East. Their traditional lifestyle has adapted to these extremely arid conditions. They have herds of animals that are adapted to living in desert conditions, such as camels.
Some common rules that help while solving the Para Jumbles:-
  - Read the paragraph **carefully** and try **to comprehend the paragraph's idea or theme** and **eliminate the irrelevant options**.
  - Try to identify the opening (**Independent statement**) and closing statement (**Concluding statement**).
  - Try to **identify** the **mandatory pairs**. Two

sentences can be connected through various connectors.
- If a statement starts with **Pronoun,** find **the noun** for which the pronoun is used, both the statements containing **noun** and **pronoun** will form a pair respectively.

Q:73 The correct answer is **option 4** i.e. **DBAC**.
  - **Statement D** is independent and defines the theme of the paragraph '**a good speech**' hence, it will be the opening statement.
  - **Statement B** refers to statement D hence, it will come after statement **D**.
  - **Statement A** talks '**If the speech is not clear, it will become ineffective**' hence, A will come after B.
  - Finally, **C** will come at the end of the arrangement.
  - Now we have the final arrangement i.e. **DBAC**.

The chosen option is the same as the final arrangement hence, it will be correct.
Correct Arrangement:-
Clarity is an essential feature of a good speech. A speech should be clear and unambiguous so that the audience can understand it easily. If it is not clear enough to express its meaning to the audience, it will become ineffective. The message of the speech should be definite and relevant to the subject matter.
Some common rules that help while solving the Para Jumbles:-
  - Read the paragraph **carefully** and try **to comprehend the paragraph's idea or theme** and **eliminate the irrelevant options**.
  - Try to identify the opening (**Independent statement**) and closing statement (**Concluding statement**).
  - Try to **identify** the **mandatory pairs**. Two sentences can be connected through various connectors.
  - If a statement starts with **Pronoun,** find **the noun** for which the pronoun is used, both the statements containing **noun** and **pronoun** will form a pair respectively.

Q:74 The correct answer is **option 1** i.e. **to accepting a.**
  - The error lies in **option 1** because of the wrong use of '**Non-finite**'.

- We need to replace '**Accepting**' with '**Accept**' for making the statement grammatically correct.

Grammatical concept:-

- The to-**infinitive (To + v1)** is **used** in many sentence constructions, often expressing the purpose of something or someone's opinion about something.
- The chosen option contains the **ERROR** hence, it will be the correct choice.

Correct Sentence:-

We all make mistakes however, being unable **to accept a** mistake is a bigger mistake.

Q:75 The correct answer is **option 4** i.e. **she should have.**

- The error lies in **option 4** because of the wrong use of '**Modal verb**'.
- We need to replace '**Could**' with '**Would**' for making the statement grammatically correct.

Grammatical concept:-

- The given statement is a conditional sentence that is used to refer to an unreal past condition and its probable past result.
- **Structure**:-
  If + subordinate clause in past perfect (Or had + sub. + past participle.)+ principle clause – would / could / should + have + past participle.
- **should have**– to say that a different action was recommended in the past.
- **could have**– to talk about possibilities if something had been different in the past.
- **would have**– to imagine a result (if something had been different in the past)
- The given statement shows imagination hence, 'Would have' will be the correct choice.
- The chosen option contains the **ERROR** hence, it will be the correct choice.

Correct Sentence:-

Had she not known about the accident of her father **she would have** talked longer with me.

Q:76 The correct answer is **option 1** i.e. **220 BC**
Researchers from China conducted a study stating that a living breathing shield of Biocrust is making the Great wall of China stronger. It was built in 220

BC in Huairou district of China by Qin Shi Huang. Biocrust is a community of Cyanobacteria, Lichen and Moss clinging to Wall's surface.

Q:77 The correct answer is **option 1** i.e. **Sabarmati.**

- In 1930, the first phase of the Civil Disobedience Movement, viz. the Salt Satyagraha, began with Mahatma Gandhi's marathon march from **Sabarmati.**
- The twenty-four-day march lasted from 12 March 1930 to 6 April 1930 with 78 other Ashram members for Dandi, a village on India's western seacoast about 385 km from Ahmedabad.
- The Civil Disobedience Movement was a pivotal moment in the Indian Nationalist Movement. The movement was an active and professed refusal of a citizen to obey certain laws, demands, orders or commands of a government.
- This movement is credited for paving the way for freedom in India.

Q:78 The correct answer is **option 2** i.e. **Jammu and Kashmir.**

- Kishtwar National Park is located in the Kishtwar district of **Jammu and Kashmir.**
- It was declared a national park on February 4, 1981.
- It is home to animals like musk deer and Himalayan brown bears.
- The park is bounded to the north by the Rinnay River, south by the Kibar Nala catchment, east by the main divide of Great Himalaya and west by the Marwa river.

Q:79 The correct answer is **Option 2** i.e. **Jhelum River.**

- Uri Dam of Jammu and Kashmir is located at the **Jhelum River.**
- Baghlihar Dam of Jammu and Kashmir is located on the Chenab river.
- The Ranjit Sagar Dam of Jammu and Kashmir is located on the Ravi river
- Manikheda dam of Madhya Pradesh is located at the Sind river.

Q:80 The correct answer is **Option 2** i.e. **Desert.**

Desert soil

- Seen under Arid and Semi-Arid conditions.
- Deposited mainly by wind activities.
- High salt content.
- Lack of moisture and Humus.
- Kankar or Impure Calcium carbonate content is high which restricts the infiltration of water, thus making it infertile.
- Nitrogen is insufficient and Phosphate is normal.
- **Texture:** Sandy

Q:81 The correct answer is **Option 2** i.e. **Thailand.**

- **Thailand** became the first Asian country to unveil plain cigarette packaging to reduce the appeal of smoking.
- As per Thailand's new legislation, by September 2019, all tobacco products will have plain packaging.
- The country already has graphic health warnings covering 85% packaging of tobacco products.
- The introduction of plain packaging is expected to boost the country's tobacco control efforts targeting current and new users.

Q:82 The correct answer is **option 4** i.e. **Reserve Bank of India.**

- Monetary policy refers to the policy of the central bank with regard to the use of monetary instruments under its control to achieve the goals specified in the Act.
- **The Reserve Bank of India (RBI)** is vested with the responsibility of conducting monetary policy. This responsibility is explicitly mandated under the Reserve Bank of India Act, of 1934.

Q:83 The correct answer is **option 3** i.e. **2s = 2ut + at².**

- **2s = 2ut + at²** is the correct equation of motion.
- Second Equation of Motion is $s = ut + 1/2\ at^2$ = $2s = 2ut + at^2$
- There are three equations for the motion of those bodies which travel with uniform accelaration.
- The First equation of motion - **v = u + at**
- It gives the velocity acquired by a body in time t.
- The Second equation of motion - **s = ut + 1/2 at².**
- The Third equation of motion - **v² = u² + 2as.**
- It gives the velocity acquired by a body in traveling distance s.

Q:84 The correct answer is **option 2** i.e. **Gross National Product.**

- Gross National Product (GNP) is an estimate of the total value of all the final products and services turned out in a given period by the means of production owned by a country's residents.
- GNP is commonly calculated by taking the sum of personal consumption expenditures, private domestic investment, government expenditure, net exports and any income earned by residents from overseas investments, minus income earned within the domestic economy by foreign residents.

Q:85 The correct answer is **option 3** i.e. **Ministry of Human Resource Development.**

- The Indian National Commission for Cooperation (INCCU) with UNESCO functions under the Ministry of Human Resource Development.
- India has been a member of INCCU since its inception in 1946.
- The meeting of the Indian **National Commission for Cooperation (INCCU)** with the United Nations Educational, Scientific and Cultural Organization (UNESCO) was held under the Ministry of Human Resource Development in New Delhi on 30th January 2020.

Q:86 The correct answer is **option 2** i.e. **Rana Dasgupta.**

- **Rana Dasgupta** is a British Indian novelist and essayist.
- He was also the literary director of the JCB Prize of Literature.
- Rabindranath Tagore Literary Prize 2019 is a legacy to Rabindranath Tagore, his

outstanding contribution to Indian and international literature, as well as to the cultural, educational, and humane ideas he pursued throughout his life.

Q:87 The correct answer is **Option 4** i.e. **Rowing**.
- Dattu Bhokanal is associated with **Rowing.**
- Dattu Bhokanal is an Indian rower who qualified for the 2016 Rio Summer Olympics.
- He was a member of the Indian quartet that won gold in the men's quadruple sculls event at the Asian Games 2018.

Q:88 The correct answer is **option 3** i.e. **Seeswal.**
- **Seeswal** is also known as the Harappan civilization in Haryana.
- The Harrapan civilization is one of the earliest known urban culture of the Indian subcontinent, dating back to around 2500-1700 BCE.
- The civilization was first identified in 1921 at Harappa in the Punjab region and then in 1922 at Mohenjodaro near the Indus River in the Sindh region.

Q:89 The correct answer is **option 2** i.e. **Scotland**
The scientists at Natural History Museum of London have discovered the oldest disease causing bacteria called Potteromyces Asteroxylicola. The fungus dates back to 407 million years ago and is found on Fossil samples from Rhynie Chert in Scotland.

Q:90 The correct answer is **option 2** i.e. **Article 370**
The Supreme Court of India in its Unanimous decision has declared Article 370 a temporary provision of the Indian Constitution. Article 370 gave special status to Jammu and Kashmir. The court in its argument stated that Jammu and Kashmir lost its internal sovereignty upon its accession with India.

Q:91 The correct answer is **option 4** i.e. **Nagaland.**
- The Ao tribe of **Nagaland** majorly celebrates the Moatsu festival in the hope of a good harvest.
- The tribals observe this festival after sowing the seeds in the fields.

- It is a famous community festival that brings people together and encourages bonding.
- This three-day festival is celebrated with great fanfare.
- Moatsu Festival is celebrated from May 1st to May 3rd, sometimes stretching to the entire week in Mokokchung.

Q:92 The correct answer is **option 1** i.e. **Polonium**.
- There are 38 radioactive elements on the periodic table.
- They either have no stable naturally occurring isotope or else are entirely artificial (all artificial elements have no stable isotopes).
- **Polonium** is a naturally occurring element that releases a huge amount of energy.
- Many sources cite polonium as the most radioactive element.

Q:93 The correct answer is **option 3** i.e. **Narges Mohammadi**
The children of the Iranian Activist Narges Mohammadi accepted the Nobel Peace prize 2023 on behalf of their mother. The activist couldn't accept her prize as she was jailed in Iran. She worked for a long time advocating for women's rights and democracy in Iran.

Q:94 The correct answer is **option 2** i.e. **Sicoma Perugia**
Sicoma Perugia defeated Itambe Minas at the finals of FIVB Men's Volleyball Club World Championship. They retained the title for the second time. The final was held at Koramangala Indoor Stadium, Bengaluru.

Q:95 The correct answer is option 4 i.e. Testa.
- **Testa** is the outer coat of the seed that develops from the ovules after fertilization.
- **Cotyledon** contains high quantities of starch in some plants, that will provide a source of food for the developing embryo prior to germination. In other plants, this role is performed by an endosperm.
- **Micropyle** is a tiny pore in the testa that lies on the opposite of the tip of the radicle. It permits water to enter the embryo before active germination.

- **Radicle** is the embryonic root that will develop into the primary root of the plant. It is usually the first part of the embryo to push its way out of the seed during germination.

Q:96 The correct answer is **Option 3** i.e. **Baht**.
- Baht is the currency of Thailand.
- Bangkok is the capital of Thailand.
- Lira is the currency of Turkey.
- The pound is the currency of Egypt, the United Kingdom, Sudan, and Lebanon.
- The dollar is the currency of Australia, the United States, New Zealand, Singapore, Taiwan, etc.

Q:97 The correct answer is **option 3** i.e. **Muscle tissue.**
- Epithelial tissue also referred to as epithelium, refers to the sheets of cells that cover exterior surfaces of the body, line some internal cavities, organs, and passageways, and form certain glands.
- Connective tissue, as its name implies, binds the cells and organs of the body together and functions in the protection, support, and integration of all parts of the body.
- Muscle tissue is excitable, responding to stimulation and contracting to provide movement, and occurs in three major types: skeletal (voluntary) muscle, smooth muscle, and cardiac muscle in the heart.
- Nervous tissue is also excitable, allowing the propagation of electrochemical signals in the form of nerve impulses that communicate between different regions of the body.

Q:98 The correct answer is **option 4** i.e. **153**.
- Article 153 of the Indian Constitution states that there shall be a governor for each state.
- Nothing in this article shall prevent the appointment of the same person as a governor for 2 or more states.

Q:99 The correct answer is **option 4** i.e. **1575**.
- The Buland Darwaza or the 'Door of Victory', was built in 1575 A.D by Mughal emperor Akbar. It was built to commemorate his victory over Gujarat.

- Buland Darwaza is the main entrance to the Jama Masjid at Fatehpur Sikri, which is 43 km from Agra.

- It is the highest gateway in the world and represents Mughal architecture. It displays the sophistication and use of technology in Akbar's empire.

Q:100 The correct answer is **option 3** i.e. **1952**.
- The first Lok Sabha was constituted on 17th April 1952 after the first general elections were successfully concluded and the Indian National Congress came into power with 245 seats.
- The speaker of the first Lok Sabha was Shri G.V Mavalnarkar.
- The first Lok Sabha lasted its full tenure of 5 years and was dissolved on 4th April 1957.