

STAFF SELECTION COMMISSION
Multi Tasking (Non-Technical) Staff

SOLVED PAPER

(7th October 2021: Shift-1)

Time Allotted- 100 Minutes

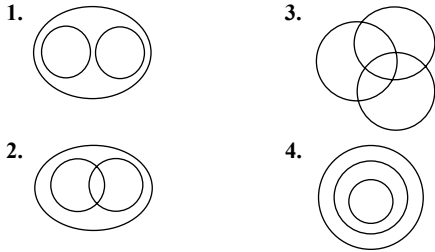
Max marks- 100

Important Instructions:-

- ⇒ This paper contains 100 questions which are divided into 4 sections and each section contains 25 questions.
- ✓ General English
- ✓ General Intelligence & Reasoning
- ✓ Numerical Aptitude
- ✓ General Awareness
- ⇒ There will be 1 mark for each correct answer and also there will be a negative marking of 0.25 for each wrong answer.
- ⇒ Each question is compulsory to attempt and there will be no negative marking for unattempted questions.

General English

1. Select the most appropriate word that means the same as the group of words given.
The point at which the earth and the sky appear to meet
1. Crust 2. Horizon 3. Rainbow 4. Ocean
2. Select the most appropriate word to fill in the blank.
There _____ a big park in front of our house.
1. are 2. may be 3. is 4. were
3. Select the most appropriate word to fill in the blank.
To practise yoga, I usually wake up when the sun _____.
1. covers 2. disappears 3. rises 4. sets
4. Select the most appropriate option to substitute the underlined segment in the given sentence.
I have online science classes for Wednesdays.
1. on Wednesdays 3. in Wednesdays
2. from Wednesdays 4. at Wednesdays
5. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
The details of the menu for today's party has been worked out.
1. no substitution required 3. are been
2. have been 4. is being
6. Select the most appropriate option to substitute the underlined segment in the given sentence.
If the town had been built at a lower altitude, it will be a lot warmer.
1. would be 3. will have been
2. should be 4. would have been
7. Select the most appropriate meaning of the given idiom/phrase.
Go off
1. Continue or happen 3. Leave or disappear
2. Stop working 4. Explain something in detail
8. Select the most appropriate word to fill in the blank.
To an ordinary person, one kind of oil is as important as _____.
1. anything 2. other 3. another 4. none
9. Select the most appropriate ANTONYM of the given word.
END
1. Show 2. Start 3. Hide 4. Close
10. Select the correctly spelt word.
1. Defferense 2. Diferense 3. Difference 4. Deferanse
11. The given sentence contains a grammatical error. Identify the segment that contains the error.
Smitha was offered the job although having no qualifications.
1. although having 3. the job
2. Smitha was offered 4. no qualifications
12. The given sentence contains a grammatical error. Identify the segment that contains the error.
Sumanth is going to school by the school bus every day.
1. every day 3. Sumanth is going
2. to school 4. by the school bus
13. Select the most appropriate word that means the same as the group of words given.
The application of scientific knowledge for practical purposes
1. Technology 3. Discovery
2. Technicality 4. Engineering
14. Select the most appropriate word to fill in the blank.
I _____ the film we saw yesterday.
1. didn't like 3. doesn't like
2. wasn't like 4. haven't liked
15. Select the most appropriate ANTONYM of the given word.
CONFIRM
1. Open 2. Agree 3. Reject 4. Accept
16. Select the most appropriate meaning of the given idiom/phrase.
Break in
1. Enter a building illegally
2. End a relationship
3. Be unable to control (one's) feelings
4. Begin to do (something) suddenly
17. Select the correctly spelt word.
1. Safficiente 3. Suffusiance
2. Sephient 4. Sufficient
18. The given sentence contains a grammatical error. Identify the segment that contains the error.
How many does the cricket bat cost?
1. the cricket bat 3. how many
2. does 4. cost



39. In a certain code language, 'FOSTER' is written as '36' and 'DANCE' is written as '25'.

How will 'ORCHARD' be written in that language?

1. 64 2. 36 3. 49 4. 45

40. Select the option that is related to the third word in the same way as the second word is related to the first word.

Rupee : Currency :: Summer : ?

1. Heat 3. Humidity
2. Season 4. Temperature

41. Which of the following letter-clusters will replace the question mark (?) in the given series?

FUV, IXW, LAX, ?, RGZ

1. PCY 2. PCX 3. ODY 4. OCW

42. Two statements are given followed by three conclusions numbered I, II and III.

Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some beauticians are architects.

All architects are cashiers.

Conclusions:

- I. Some architects are beauticians.
II. Some cashiers are architects.
III. Some cashiers are beauticians.
1. Only conclusions I and III follow.
2. Only conclusions II and III follow.
3. All of the conclusions follow.
4. Only conclusions I and II follow.

43. In a certain code language, 'ROMAN' is written as 'YVTHU'. How will 'THING' be written in that language?

1. AORSN 2. BCPUN 3. APQUM 4. AOPUN

44. Select the option which is related to the third word in the same way as the second word is related to the first word. related to the word.

Enjoyable : Pleasant :: Excellent : ?

1. Prosperous 3. Exquisite
2. Comical 4. Happy

45. In a certain code language, 'CLASS' is written as 'TTBMD'. How will 'DINOSOUR' be written in that language?

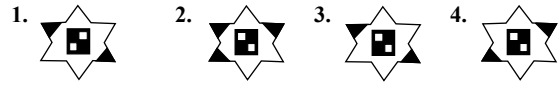
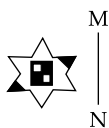
1. SVPTPOJE 3. SWPUPOJE
2. SVPRPJKF 4. SXOSPOJE

46. Which of the following numbers will replace the question mark (?) in the given series?

50, 86, ?, 127, 136, 140, 141

1. 123 2. 99 3. 111 4. 103

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



48. If A denotes 'addition', B denotes 'multiplication', C denotes 'subtraction', and D denotes 'division', then what will be the value of the following expression?

5 B 5 B 3 A 14 C (28 D 7) A 5 B (13 C 9)

1. 105 2. 112 3. 95 4. 45

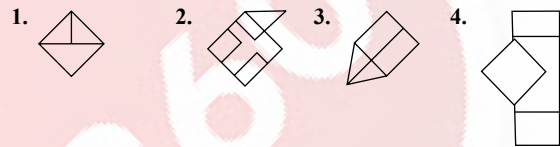
49. Eight friends P, Q, R, S, T, U, V and W are sitting in two lines, with four friends sitting in each line. Both the lines are facing north. The four persons in the back line are exactly behind the four persons in the front line. P is between T and W. Q is just behind T. Q, who is to the immediate left of S, is also at one of the corners in the back line. R is between S and U. Who is sitting between P and V?

1. S 2. W 3. T 4. U

50. Select the option figure that is embedded in the given figure (X) as its part (rotation is NOT allowed).



(X)

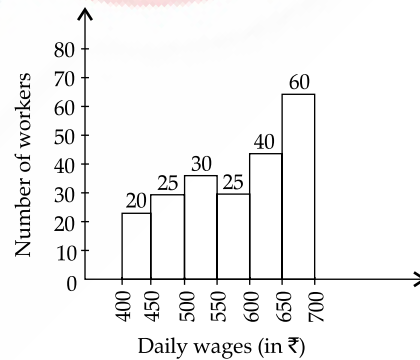


Numerical Aptitude

51. Study the graph and answer the question given below.

The given graph represents the number of workers getting daily wages (in ₹).

Total number of workers = 200



The total number of workers whose daily wages are less than ₹550 is what percentage less than the total number of workers whose daily wages are ₹550 and above?

1. 45% 2. 60% 3. 40% 4. 50%

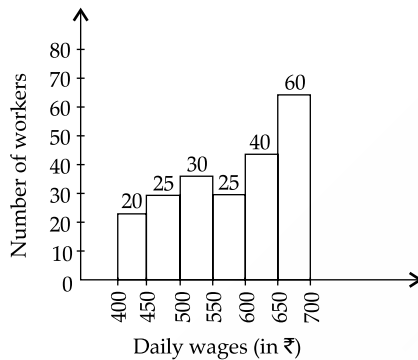
52. Two numbers are in the ratio 7 : 9. If the sum of their squares is 8320, then the sum of the two numbers is:

1. 128 2. 228 3. 120 4. 124

53. Out of two numbers, the first number is three-fourth of the second number. If the average of the reciprocals of the two numbers is $\frac{7}{72}$, then the sum of the two numbers is:

1. 21 2. 22 3. 25 4. 20

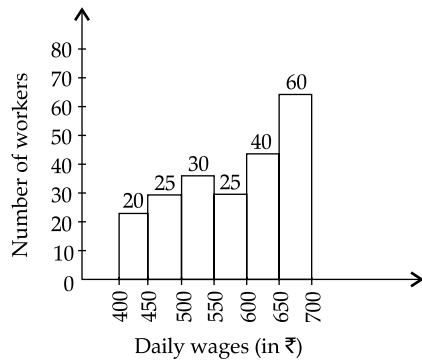
54. An article was sold at a loss of 18%. If it was sold for ₹2,475 more, then there would have been a profit of 12%. The cost price of the article is:
 1. ₹8,250 2. ₹8,500 3. ₹8,000 4. ₹8,200
55. The smallest four-digit number which is exactly divisible by 18, 32 and 48 is:
 1. 1252 2. 1156 3. 1256 4. 1152
56. A, B and C are three boxes containing marbles in the ratio 3 : 5 : 7, and the total number of marbles is 75. If 3 marbles are transferred from B to A, and 5 marbles are transferred from C to B, then the new ratio of the marbles is:
 1. 6 : 8 : 11 2. 5 : 6 : 7 3. 7 : 9 : 10 4. 6 : 9 : 10
57. From each of the four corners of a rectangular sheet of dimensions 48 cm × 27 cm, a square of side 3.5 cm is cut off and a box is made. The volume of the box is:
 1. 2880 cm³ 2. 2780 cm³ 3. 2870 cm³ 4. 2860 cm³
58. Study the graph and answer the question given below.
 The given graph represents the number of workers getting daily wages (in ₹).
 Total number of workers = 200



The ratio of the total number of workers whose daily wages are less than ₹500 to the total number of workers whose daily wages are ₹600 and above is:

1. 9 : 20 2. 12 : 17 3. 8 : 15 4. 9 : 15
59. The sum of three numbers is 396. If the ratio between the first and second number is 7 : 11 and that between the second and the third number is 11 : 15, then the difference between the first and the third number is:
 1. 86 2. 94 3. 96 4. 85
60. An article was sold at 65% of its marked price, and thus there was a gain 30%. Find the ratio of the marked price to cost price.
 1. 3 : 2 2. 4 : 6 3. 2 : 1 4. 3 : 1
61. If the area of the base of a cylinder is 346.5 cm² and the area of the curved surface is 990 cm², then its height is:
 (Take $\pi = \frac{22}{7}$)
 1. 10 cm 2. 12 cm 3. 14 cm 4. 15 cm
62. What is the value of x, if $(5 + 4^2) \div 3$ of $x - 2 \times 4 = -7$?
 1. -3 2. 5 3. 7 4. -3
63. If the volume of a sphere is $65\frac{10}{21}$ cm³, then its surface area is: (Take $\pi = \frac{22}{7}$)

1. $77\frac{4}{7}$ cm² 3. $78\frac{4}{7}$ cm²
 2. $76\frac{4}{7}$ cm² 4. $78\frac{3}{7}$ cm²
64. A sum of ₹8,500 amounts to ₹11,900 in 5 years at simple interest per annum. If the rate of interest is increased by 3%, then the increased amount for the same period is:
 1. ₹12,175 2. ₹13,175 3. ₹12,475 4. ₹13,275
65. A certain number of persons can complete a piece of work in 46 days. If there were 8 persons more, the work could be finished in 16 days less. How many persons were originally there?
 1. 25 2. 18 3. 15 4. 20
66. The average of seven consecutive odd numbers is 27. If the last number is removed from the list, then the average of the remaining numbers is:
 1. 26 2. 25 3. 24 4. 22
67. The dimensions of a solid metallic cuboid are 36 cm, 54 cm and 24 cm. It is melted and recast into 8 cubes of same volume. The sum of the surface areas (in cm²) of these of cubes is:
 1. 10368 2. 11664 3. 9720 4. 15552
68. The income of a company increases by 25% per year. If its income is ₹31,25,000 in the year 2017, what was the income in 2015?
 1. ₹25,00,000 3. ₹20,00,000
 2. ₹22,00,000 4. ₹20,20,000
69. If the difference between the selling prices of an article, when sold at 22% discount and at 14.5% discount, is ₹285, then the marked price of the article is:
 1. ₹3,400 2. ₹3,500 3. ₹3,800 4. ₹2,800
70. A man covered a distance of 280 km in 8 hours on a motorcycle. How much distance will be covered on a bicycle in 2 hours, if he rides the bicycle at $\frac{3}{14}$ of the speed of the motorcycle?
 1. 25 km 2. 15 km 3. 24 km 4. 20 km
71. A and B can do a work in 15 days and 25 days, respectively. They worked together for 5 days, after which B was replaced by C and the remaining work was completed by A and C in the next 4 days. In how many days will C alone complete the same work?
 1. 24 days 2. 20 days 3. 15 days 4. 25 days
72. At what rate per cent per annum will ₹4,800 amount to ₹5,547 in two years if the interest is compounded annually?
 1. 7.5% 2. 7.5% 3. 8.5% 4. 8%
73. The mean of 25 numbers is 14. If 3 is added to every number, what will be the new mean?
 1. 18 2. 17 3. 15 4. 14
74. Walking at $\frac{3}{5}$ of his usual speed, a man covers a certain distance in one hour and 40 minutes more than the time he takes to cover the distance at his usual speed. The time taken by him to cover the same distance at his usual speed is:
 1. $\frac{7}{2}$ hours 2. $\frac{3}{2}$ hours 3. $\frac{5}{2}$ hours 4. $\frac{5}{3}$ hours
75. Study the graph and answer the question given below.
 The given graph represents the number of workers getting daily wages (in ₹).
Total number of workers = 200



What is the difference between the percentage of workers whose daily wages are less than ₹500 and the percentage of workers whose daily wages are ₹600 and above?

1. 25% 2. 27% 3. 30% 4. 27.5%

General Awareness

76. 'Povada dance' is a performing art from the state of _____.
 1. Gujarat 3. Rajasthan
 2. Maharashtra 4. Kerala
77. In which of the following states is Bhati Chitra (fresco painting) a popular art form?
 1. Karnataka 3. Haryana
 2. Nagaland 4. Maharashtra
78. The growing voice box in boys can be seen as a protruding part of the throat called _____.
 1. bronchi 3. trachea
 2. thyroid cartilage 4. Adam's apple
79. Litmus solution is a purple dye, which is extracted from lichen, a plant belonging to the division _____.
 1. Gymnosperms 3. Thallophyta
 2. Pteridophyta 4. Bryophyta
80. Which part of a flower is the sticky surface at the top of the pistil, it traps and holds the pollen?
 1. Style 2. Stigma 3. Sepal 4. Ovary
81. Imphal valley of Manipur is an important centre of _____ craft.
 1. Kauna 2. Godna 3. Butta 4. Mirijims
82. Which is the second most important metallurgical industry in India?
 1. Iron 2. Copper 3. Aluminum 4. Zinc
83. When did the Indian Army liberate Goa from the Portuguese and declare it a Union Territory?
 1. 1967 2. 1961 3. 1952 4. 1969
84. As of July 2020, who among the following was the Director General of Indian Council of Medical Research (ICMR)?
 1. Prof. Balram Bhargava
 2. Prof. Subrata Sinha
 3. Dr. Shyam S Chauhan
 4. Dr. Parthaprasad Chattopadhyay
85. Who is the author of the book 'The Best Thing About You is You'?
 1. Amitabh Bachchan 3. Anupam Kher
 2. Anil Kapoor 4. Annu Kapoor
86. Who among the following is the first Indian to get an Oscar Award?
 1. Bhanu Athaiya 3. AR Rahman
 2. Satyajit Ray 4. Resul Pookutty
87. In June 2020, Amit Panghal and Vikas Krishan were nominated for _____ by the Boxing Federation of India.
 1. Padma Bhushan
 2. Rajiv Gandhi Khel Ratna Award
 3. Padma Shri
 4. Arjuna Award
88. Which of the following is a tidal port?
 1. Vishakapatnam 3. Tuticorin
 2. Kandla 4. Chennai
89. Provisions of the Consumer Protection Act, 2019 has come into force since _____.
 1. 12 March 2020 3. 30 April 2020
 2. 23 June 2020 4. 20 July 2020
90. Which Commission recommended 27% reservation for OBC candidates in all levels of government services?
 1. Sarkaria Commission 3. Balwant Commission
 2. Mandal Commission 4. Kothari Commission
91. Which of the following is one of the main mineral constituents of the continental mass of the earth?
 1. Bronze 2. Copper 3. Silica 4. Gypsum
92. Which of the following elements has the highest thermal conductivity of any element and the highest light reflectance?
 1. Aluminium 2. Copper 3. Brass 4. Silver
93. In which year was the Treaty of Salbai signed?
 1. 1773 2. 1799 3. 1794 4. 1782
94. 10% reservation in central government jobs under economically weaker sections (EWS) category is available to persons whose family income is below:
 1. ₹10 lakh 2. ₹8 lakh 3. ₹3 lakh 4. ₹5 lakh
95. Which of the following is the largest cell in the human body?
 1. Sperm 3. Neurons
 2. Ovum 4. Osteoclast
96. Name of which river among the following got associated with the water disputes tribunal of 1990 aimed at resolving the old issue of water sharing between Karnataka and Tamil Nadu?
 1. Godavari 2. Tapi 3. Krishna 4. Cauvery
97. In which year did the companies IBM and Coca Cola shut down their operations for not being able to comply with the Foreign Exchange Regulation Act that mandated foreign investors cannot own over 40% in Indian enterprises?
 1. 1964 2. 1981 3. 1956 4. 1977
98. Which of the following teams won the Indian Super League 2019-2020?
 1. ATK Football Club 3. North East United
 2. Kerala Blasters 4. FC Goa
99. _____ was one of the first Indian rulers to lead an armed rebellion against the British East India Company in 1824 against the implementation of the Doctrine of Lapse.
 1. Kittur Chennamma 3. Jayi Rajaguru
 2. Titumir 4. Pazhassi Raja
100. Who among the following social reformers founded an educational institution, Hindu Widows Home, in Poona in the year 1896?
 1. Dhondo Keshav Karve 3. Nanaji Deshmukh
 2. Puli Thevar 4. Tatyapa Toppe

Answer Key

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

Answers with Explanations

1. **Option (2) is correct.**
'Crust' means a hardened layer, coating, or deposit on the surface of something soft. 'Horizon' is the line at which the earth's surface and the sky appear to meet.
2. **Option (3) is correct.**
There is a big park in front of our house. Sometimes the subject of a sentence is not the starting word itself, especially when the sentence starts with the adverb 'there' which introduces the subject. Since the subject is 'park, the verb will be in singular, therefore, 'is' is appropriate.
3. **Option (3) is correct.**
To practise yoga, I usually wake up when the sun rises. Since the verb is 'wake up', it will obviously refer to the act of the sun rising not setting.
4. **Option (1) is correct.**
I have online science classes on Wednesdays. We use 'on' to talk about particular days, dates, and holidays. Whereas, 'for' is used to denote purpose/reason.
5. **Option (2) is correct.**
The details of the menu for today's party have been worked out. The subject of the sentence is 'details', not 'the menu'. So 'details' being plural, will take a plural verb. Therefore, 'have been worked' will replace 'has been worked'.
6. **Option (4) is correct.**
If the town had been built at a lower altitude, it would have been a lot warmer. The sentence is a conditional clause, with the dependent clause in past tense, as indicated in 'had been built', so the independent clause will follow the structure: subject + would + have + past participle.
7. **Option (2) is correct.**
'Go off' means to 'explode or fire'. So, stop working means the same as 'Go off'.
8. **Option (3) is correct.**
To an ordinary person, one kind of oil is as important as another.' Another' is used to refer to an additional person or thing of the same type as one already mentioned or known about. Since comparison is being made with 'one kind of oil', so 'another' is what stands for one more type of oil.
9. **Option (2) is correct.**
'End' means 'a final part of something, especially a period of time, an activity, or a story'. So, the correct answer will be 'start'.
10. **Option (3) is correct.**
The word 'difference' has been spelt correctly.
11. **Option (1) is correct.**
The correct sentence is: Smitha was offered the job despite having no qualifications. "Despite" is a preposition that means 'without being influenced or prevented by'. Whereas, 'although' is a conjunction used when the clause has a subject and its own verb. But in the given sentence, although the clause doesn't have any verb it has gerund (noun) i.e. 'having' hence, we need to use a preposition.
12. **Option (3) is correct.**
The correct sentence is- Sumanth goes to school by the bus every day. Here, 'is going' will be replaced by 'goes'. As per the rules of grammar, whenever we need to use the habitual actions that we do regularly then we need to use the present simple tense.
13. **Option (1) is correct.**
Technology refers to the application of scientific knowledge for practical purposes. Technicality is a decision based only on a specific rule or rules and not on any other consideration. Discovery is the act of detecting something new, or something previously unrecognised as meaningful. Engineering is the branch of science and technology concerned with the design, building, and use of engines, machines, and structures. Therefore, the application of scientific knowledge for practical purposes is called 'technology'.
14. **Option (1) is correct.**
The correct sentence is: I didn't like the film we saw yesterday. In the given sentence, the blank requires a tense in the past form, due to the use of past time 'yesterday'. By rule, whenever, a phrase/clause of past time is present, simple past tense is used. So 'didn't like' fits the blank.
15. **Option (3) is correct.**
'Confirm' means to make valid or binding by some formal or legal act. 'Agree' and 'accept' are synonyms; therefore, the antonym is 'reject'.
16. **Option (1) is correct.**
'Break in' means to 'to enter something (such as a building or computer system) without consent or by force.' Enter a building illegally.
17. **Option (4) is correct.**
Sufficient. Safficiente, 'Sephient' 'Suffusiance' are all incorrect.
18. **Option (3) is correct.**
How much does the cricket bat cost? 'Much' is used to express the amount of something; while 'many' is used to denote for referring to the quantity. So cost is related to 'much'.
19. **Option (1) is correct.**
Evident means clearly seen or understood. All options, except (1) are antonyms of 'evident'. Therefore, 'clear'.
20. **Option (2) is correct.**
'Calm' implies 'peaceful, quiet, and without worry'. Therefore, 'quiet'.
21. **Option (1) is correct.**
Many reports have said that in the context of Covid-19 lockdown, schooling, and college education are likely to be online. 'In context of' is the appropriate phrase.
22. **Option (1) is correct.**
The reports have also pointed out that this change will deny the students the experience of studying. The passage is about

Covid -19 lockdown. The first statement states a report , the second sentence adds an additional point to the same report. Thus, 'in addition' which means 'also' is the appropriate word for the blank.

23. Option (3) is correct.

The reports have also pointed out that this change will deny the students the experience of studying in a physical campus. 'Campus' refers to the grounds and buildings of a university or college. Since the sentence speaks of students studying, therefore, it invariably refers to 'campus'.

24. Option (2) is correct.

This is because they can only interact with their teachers; they will miss the opportunity to get to know their classmates and make real friends. Denying the experience of studying in a physical campus eventually results in the lack of opportunity/ chance to get to know their classmates and make real friends.

25. Option (4) is correct.

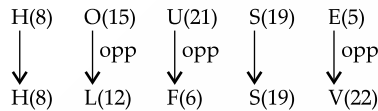
Thus, the current situation has upset many boys and girls and they are waiting for things to get back to normal. Since the current situation has denied students the experience of studying in a physical campus and bonding with friends, it has cause distressed/upset them, and they are raring to rejoin.

26. Option (4) is correct.

Given expression: $42 \div 7 \times 5 + 35 - 49 = 18$
 Upon checking option (4) and interchanging number, we get:
 $35 \div 7 \times 5 + 42 - 49 = 18$
 $5 \times 5 + 42 - 49 = 18$
 $25 + 42 - 49 = 18$
 $67 - 49 = 18$
 $18 = 18$
 LHS = RHS

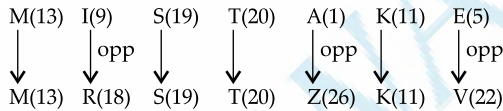
27. Option (2) is correct.

Given that: HOUSE is written as '81261922'.



Here, all the vowels has been assigned their opposite positional value and consonants remains the same.

Similarly, MISTAKE can be written as:



Hence, 13181920261122 is the correct answer.

28. Option (4) is correct.

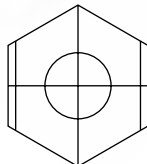
The pattern of the series is as follows:

- $11 \times 2 = 22$
- $22 + 3 = 25$
- $25 \times 4 = 100$
- $100 + 5 = 105$
- $105 \times 6 = 630$

Hence, 100 will complete the series.

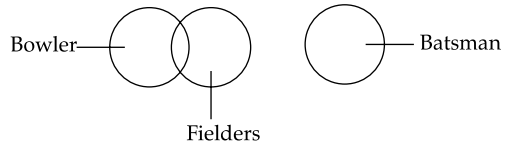
29. Option (2) is correct.

Option figure (2) will complete the series is as follows:



30. Option (3) is correct.

The venn diagram of the given statements is as follows:



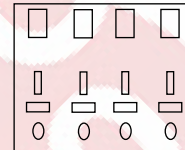
From conclusion I: No fielder is a batsman is false.
 From conclusion II: No batsman is a bowler is true.
 Hence, only conclusion II follows.

31. Option (2) is correct.

From row I: $24 \times 4 = 96$, $96 + 25 = 121$, $121 + (25 - 24) = 121 + 1 = 122$
 From row II: $27 \times 4 = 108$, $108 + 31 = 139$, $139 + (31 - 27) = 139 + 4 = 143$
 From row III: $29 \times 4 = 116$, $116 + 35 = 151$, $151 + (35 - 29) = 151 + 6 = 157$

32. Option (4) is correct.

After unfolding, it will appear as below:

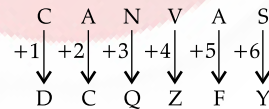


33. Option (3) is correct.

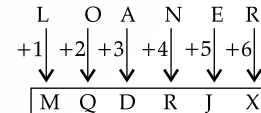
From the given question, the arrangement is as follows:
 $V < T > H > K > L > Z = B$
 From option (1) - $T > L$ is correct.
 From option (2) - $V < T$ is correct.
 From option (3) - $K = B$ is false.
 From option (4) - $H > Z$ is correct.
 Hence, $K = B$ is not correct.

34. Option (3) is correct.

Given that: CANVAS : DCQZFY



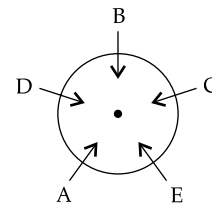
Similarly, LOANER : ?



Hence, LOANER will be written as MQDRJX.

35. Option (1) is correct.

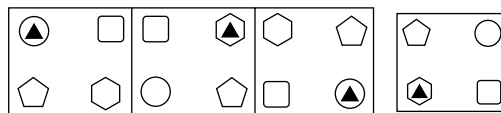
The sitting arrangement of five salesmen around a circular table is as following:



Hence, B is sitting at the second place to the right of E.

36. Option (3) is correct.

The figure series is as follows:

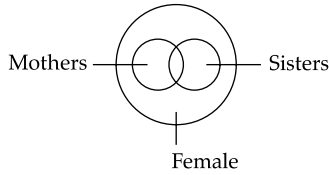


37. **Option (3) is correct.**

Given that: 6 : 85
 $6^2 + (6 + 1)^2 = 6^2 + 7^2 = 36 + 49 = 85$
 Similarly, 12 : ?
 $12^2 + (12 + 1)^2 = 12^2 + 13^2 = 144 + 169 = 313$

38. **Option (2) is correct.**

The best suited venn diagram of the given statements is as follows:



As we know that mothers and sisters are both females.

39. **Option (3) is correct.**

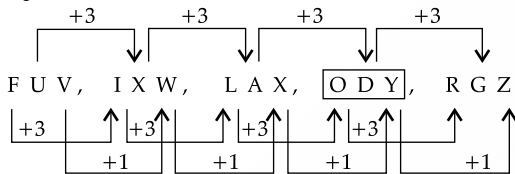
Given that: FOSTER is written as 36
 Here, the total number of letters in the given word is 6, $6^2 = 36$
 And the total number of letters in the word DANCE is 5, $5^2 = 25$
 Similarly, the total number of letters in the word ORCHARD is 7, $7^2 = 49$.

40. **Option (2) is correct.**

As we know, rupee is an example of currency. Similarly, summer is an example of season.

41. **Option (3) is correct.**

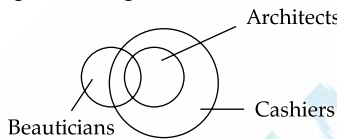
The pattern of the series is as follows:



Hence, ODY will complete the series.

42. **Option (3) is correct.**

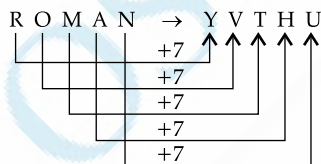
The venn diagram of the given statements is as follows:



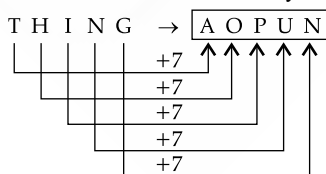
From conclusion I: Some architects are beauticians is true.
 From conclusion II: Some cashiers are architects is true.
 From conclusion III: Some cashiers are beauticians is also true.
 Hence, all the three conclusions follow.

43. **Option (4) is correct.**

Given that: ROMAN is written as YVTHU



Here, each letter of the given word is increased by 7.
 Similarly, THING is written in the same way



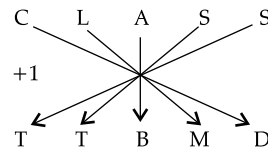
Hence, THING will be written as AOPUN.

44. **Option (3) is correct.**

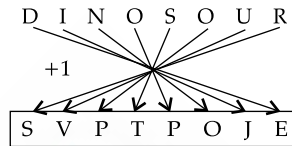
As we know pleasant is the synonym of pleasurable. Similarly, exquisite is the synonym of excellence.

45. **Option (1) is correct.**

Given that: CLASS is written as TTBMD



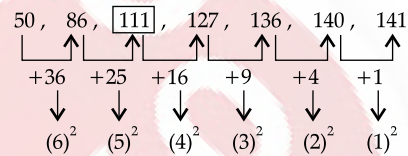
Similarly, DINOSAUR is written in the same way



Hence, DINOSAUR will be written as SVPTPOJE.

46. **Option (3) is correct.**

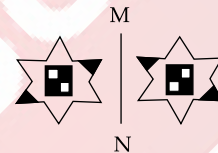
The pattern of the series is as follows:



Hence, 111 will complete the series.

47. **Option (1) is correct.**

The mirror image of the given figure is as follows:

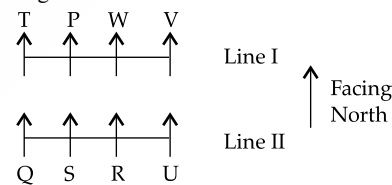


48. **Option (1) is correct.**

Given expression:
 $5 B 5 B 3 A 14 C (28 D 7) A 5 B (13 C 9)$
 After putting sign, we get:
 $5 \times 5 \times 3 + 14 - (28 \div 7) + 5 \times (13 - 9)$
 $\Rightarrow 75 + 14 - 4 + 5 \times 4$
 $\Rightarrow 89 - 4 + 20$
 $\Rightarrow 109 - 4 = 105$

49. **Option (2) is correct.**

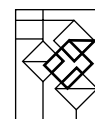
The sitting arrangement of eight friends in two lines with four friends sitting in each line is as follows:



Therefore, W is sitting between P and V.

50. **Option (2) is correct.**

The option figure (2) in which the embedded in the given figure is as follows:



51. **Option (3) is correct.**

Total number of workers whose daily wages are less than ₹ 550 = $30 + 25 + 20 = 75$

Total number of workers whose daily wages are ₹ 550 and above = 25 + 40 + 60 = 125

$$\begin{aligned} \text{Required percentage} &= \frac{125 - 75}{125} = 100 \\ &= \frac{50}{125} \times 100 = 40\% \end{aligned}$$

52. Option (1) is correct.

Let the ratio of the two numbers be $7x$ and $9x$ respectively

According to question

$$\begin{aligned} \Rightarrow (7x)^2 + (9x)^2 &= 8320 \\ 49x^2 + 81x^2 &= 8320 \\ 130x^2 &= 8320 \\ x^2 &= 64 \\ x &= 8 \end{aligned}$$

Now, the 1st number = $(7 \times 8) = 56$

The 2nd number = $(9 \times 8) = 72$

The sum of both the numbers = $(56 + 72) = 128$

53. Option (1) is correct.

Let the second number be x ,

Then, the first number be $\left(\frac{3x}{4}\right)$

$$\text{Average} = \frac{\text{Sum of observations}}{\text{Number of observations}}$$

Hence, average of the reciprocals of the two numbers

$$\Rightarrow \frac{\frac{4}{3x} + \frac{1}{1x}}{2} = \frac{7}{72}$$

$$\Rightarrow \frac{4 + 3}{\frac{3x}{2}} = \frac{7}{72}$$

$$\Rightarrow \frac{7}{6x} = \frac{7}{72}$$

$$\Rightarrow \frac{1}{3x} = \frac{1}{36}$$

$$x = 12$$

$$\text{Now, the 1st number} = \frac{3x}{4} = \frac{(3 \times 12)}{4} = \frac{36}{4} = 9$$

The 2nd number = $x = 12$

The sum of both the numbers = $(9 + 12) = 21$

54. Option (1) is correct.

$$\text{Loss}\% = \frac{\text{CP} - \text{SP}}{\text{CP}}$$

$$\Rightarrow \text{SP} = \text{CP} - \text{CP} \times \text{Loss}\%$$

$$\text{Gain}\% = \frac{\text{SP} - \text{CP}}{\text{CP}}$$

Let the cost price of the article be q

Original SP = $q - q \times 18\% = 0.82q$

Desired selling price = $q + q \times 12\% = 1.12q$

According to question

$$1.12q - 0.82q = 2475$$

$$0.3q = 2475$$

$$\Rightarrow 0.3q = 2475$$

$$\Rightarrow q = \frac{2475}{0.3}$$

$$\Rightarrow q = 8250$$

The cost price of the article is ₹ 8250.

55. Option (4) is correct.

The smallest positive integer that is evenly divisible by both a and b .

The smallest four digit number = 1000

LCM of 18, 32 and 48

$$18 = 2 \times 3 \times 3$$

$$32 = 2 \times 2 \times 2 \times 2 \times 2$$

$$48 = 2 \times 2 \times 2 \times 2 \times 3$$

$$\begin{aligned} \text{LCM} &= 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 \\ &= 288 \end{aligned}$$

Now, divide the smallest 4 digit number by 288, we get the remainder = 136

Now, $(288 - 136) = 152$

Hence, the required number is = $1000 + 152 = 1152$

56. Option (4) is correct.

Let the ratio of number of marbles in three boxes be $3x$, $5x$, and $7x$ respectively

$$\Rightarrow (3x + 5x + 7x) = 75$$

$$\Rightarrow 15x = 75$$

$$\Rightarrow x = 5$$

The marbles in A = $3x = (3 \times 5) = 15$

The marbles in B = $5x = (5 \times 5) = 25$

The marbles in C = $7x = (7 \times 5) = 35$

Now,

3 marbles are transferred from B to A

The marbles in B = $(25 - 3) = 22$

The marbles in A = $(15 + 3) = 18$

5 marbles are transferred from C to B

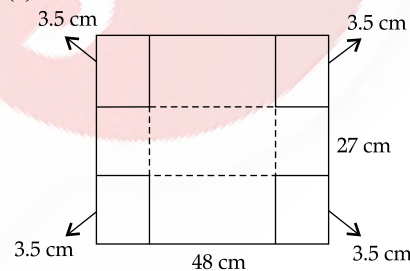
The marbles in C = $(35 - 5) = 30$

The marbles in B = $(22 + 5) = 27$

The new ratio of the marbles A, B, C = $(18 : 27 : 30)$

$\Rightarrow 6 : 9 : 10$

57. Option (3) is correct.



$$\begin{aligned} \text{Length of the box} &= [48 - (2 \times 3.5)] = [48 - 7] \\ &= 41 \text{ cm} \end{aligned}$$

$$\begin{aligned} \text{Breadth of the box} &= [27 - (2 \times 3.5)] = [27 - 7] \\ &= 20 \text{ cm} \end{aligned}$$

$$\text{Height of the box} = 3.5 \text{ cm}$$

$$\begin{aligned} \text{Now, volume of the box} &= (41 \times 20 \times 3.5) \text{ cm}^3 \\ &= 2870 \text{ cm}^3 \end{aligned}$$

58. Option (1) is correct.

Total number of the workers whose daily wages are less than ₹ 550 = $25 + 20 = 45$

Total number of workers whose daily wages are ₹ 600 and above = $40 + 60 = 100$

$$\text{Hence, the required percentage} = \frac{45}{100} = \frac{9}{20} = 9 : 20$$

59. Option (3) is correct.

The sum of three numbers = 396

Let the 1st, 2nd, and 3rd number be $7x$, $11x$ and $15x$ respectively.

According to question

$$(7x + 11x + 15x) = 396$$

$$33x = 396$$

$$x = 12$$

Now, the 1st number = $7x = (7 \times 12) = 84$

The 3rd number = $15x = (15 \times 12) = 180$

The difference of both the numbers = $(180 - 84) = 96$

60. Option (3) is correct.

Let the Cost Price be 100 and the Marked Price be x

According to question

An article was sold at 65% of its marked price = $(65\% \text{ of } x)$

And there was a gain = $(130\% \text{ of } 100)$

Now,

$$\Rightarrow \left(\frac{65}{100}x\right) = \left(\frac{130}{100} \times 100\right)$$

$$\Rightarrow \frac{13}{20}x = 130$$

$$\Rightarrow 13x = (130 \times 20)$$

$$\Rightarrow x = \frac{130 \times 20}{13}$$

$$\Rightarrow x = 200$$

Now,

The ratio of the marked price to cost price = $(200: 100) \Rightarrow 2:1$

61. Option (4) is correct.

Area of base of the cylinder = πr^2

Area of curved surface = $2\pi r h$

The area of the base of a cylinder = πr^2

$$\frac{22}{7}r^2 = 346.5 \text{ cm}^2$$

$$\Rightarrow 22r^2 = 2425.5$$

$$\Rightarrow r^2 = 2425.5$$

$$\Rightarrow r = 110.25$$

$$\Rightarrow r = 10.5 \text{ cm}$$

Now,

The curved surface area = $2\pi r h$

$$\Rightarrow 2 \times \frac{22}{7} \times 10.5 \times h = 990 \text{ cm}^2$$

$$\Rightarrow 66h = 990 \text{ cm}^2$$

$$\Rightarrow h = \frac{990}{66} \text{ cm}^2$$

$$\Rightarrow h = 15 \text{ cm}$$

62. Option (3) is correct.

$$(5 + 4^2) \div 3 \text{ of } x - 2 \times 4 = -7$$

Using BODMAS rule, we get

$$(5 + 4^2) \div 3 \times x - 2 \times 4 = -7$$

$$\frac{21}{3x} - 8 = -7$$

$$\Rightarrow \frac{7}{x} = -7 + 8$$

$$\Rightarrow \frac{7}{x} = 1$$

$$\Rightarrow x = 7$$

63. Option (3) is correct.

$$\text{Volume of the sphere} = \frac{4}{3}\pi r^3$$

Surface area of the sphere = $4\pi r^2$

$$\text{Volume of the sphere} = 65 \frac{10}{21} \text{ cm}^3 = \frac{1375}{21} \text{ cm}^3$$

$$\frac{4}{3} \times \frac{22}{7} \times r^3 = \frac{1375}{21}$$

$$\Rightarrow \frac{88}{21} r^3 = \frac{1375}{21}$$

$$\Rightarrow r^3 = \frac{1375}{88}$$

$$\Rightarrow r^3 = \frac{125}{8}$$

$$\Rightarrow r = \frac{5}{2}$$

Now, the surface area of sphere

$$= \frac{4}{3} \times \frac{22}{7} \times \frac{25}{4} = \frac{550}{7} = 78 \frac{4}{7} \text{ cm}^2$$

64. Option (2) is correct.

The rate is increasing by 3% and the given time is 5 years.

The new amount = Previous amount + $[(3 \times 5)\% \text{ of } 8500]$

$$= 11900 + 1275$$

$$= ₹ 13,175$$

Hence, the increased amount is ₹ 13,175

65. Option (3) is correct.

Let there be x men originally

x men finish the work = 46 days

and, $(x + 8)$ persons finish the work = $(46 - 16) = 30$ days

x men can finish the work = 46

1 man can finish the work = $46x$

$(x + 8)$ persons finish the work in 30 days

1 man can finish the work = $30(x + 8)$

Now,

$$46x = 30(x + 8)$$

$$\Rightarrow 46x = 30x + 240$$

$$\Rightarrow 16x = 240$$

$$\Rightarrow x = 15$$

Hence, there were 15 persons.

66. Option (1) is correct.

Let the numbers be $(x - 6)$, $(x - 4)$, $(x - 2)$, x , $(x + 2)$, $(x + 4)$, $(x + 6)$

Now, the sum is $7x$

$$\Rightarrow 27 = \frac{7x}{7}$$

$$\Rightarrow x = 27$$

The last number is removed from the list, that means $(x + 6)$ is removed

New sum = $(x - 6) + (x - 4) + (x - 2) + x + (x + 2) + (x + 4)$

$$\text{Average} = \frac{6x - 6}{6} = \frac{162 - 6}{6} = 26$$

67. Option (4) is correct.

Volume of the cuboid = $l \times b \times h$

Volume of the cube = a^3

Surface area of the cube = $6a^2$

According to the question

$$\Rightarrow (36 \times 54 \times 24) = 8a^3$$

$$\Rightarrow 46,656 = 8a^3$$

$$\Rightarrow a^3 = 5832$$

$$\Rightarrow a = 18$$

Now,

The sum of the surface areas of these 8 cubes

$$= 8 \times (6a^2)$$

$$= (8 \times 6 \times 18 \times 18) \text{ cm}^2$$

$$= 15552 \text{ cm}^2$$

68. Option (3) is correct.

Let the income in the year 2015 be x

According to question

$$x \times \frac{125}{100} \times \frac{125}{100} = 31,25,000$$

$$\Rightarrow x \times \frac{5}{4} \times \frac{5}{4} = 31,25,000$$

$$\Rightarrow \frac{25x}{16} = 31,25,000$$

$$\Rightarrow 25x = 31,25,000 \times 16$$

$$\Rightarrow x = \frac{31,25,000 \times 16}{25}$$

$$\Rightarrow x = (125,000 \times 16)$$

$$\Rightarrow x = ₹ 20,00,000$$

69. Option (3) is correct.

Let the Marked Price be $100x$

According to question

$$(22x - 14.5x) = 285$$

$$\Rightarrow 7.5x = 285$$

$$\Rightarrow x = 38$$

Now, The Marked price

$$= 100x = ₹ (100 \times 38)$$

$$= ₹ 3800$$

70. Option (2) is correct.

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

$$\text{Speed of motorcycle} = \left(\frac{280}{8} \right) = \frac{35 \text{ km}}{\text{hour}}$$

He rides the bicycle at $\frac{3}{14}$ of the speed of motorcycle

$$= \left(\frac{3}{14} \times 35 \right) \text{ km}$$

$$\text{hour}$$

$$= \frac{15}{2} \text{ km/hour}$$

Now the distance covered by the bicycle

$$= \left(\frac{15}{2} \times 2 \right) \text{ km}$$

$$= 15 \text{ km}$$

71. Option (2) is correct.

Work = efficiency \times time

LCM of 15 and 25 = 75

$$\text{Efficiency of A} = \left(\frac{75}{15} \right) = 5 \text{ unit/day}$$

$$\text{Efficiency of B} = \left(\frac{75}{25} \right) = 3 \text{ unit/day}$$

Time taken by A and B together

$$= [5 \times (5 + 3)] = 40 \text{ days}$$

The remaining work = $(75 - 40) = 35$ unit

The remaining work was completed by A and C

$$= \left(\frac{35}{4} \right) = 8.75$$

Now,

$$1 \text{ day work of C} = (8.75 - 5) = 3.75$$

Time taken by C alone to complete the work

$$= \left(\frac{75}{3.75} \right) = 20 \text{ days}$$

The time taken by C to complete the work in 20 days.

72. Option (1) is correct.

$$A = P \left(1 + \frac{r}{100} \right)^t$$

According to question

$$5547 = 4800 \left(1 + \frac{r}{100} \right)^2$$

$$\Rightarrow \left(1 + \frac{r}{100} \right)^2 = \left(\frac{5547}{4800} \right)$$

$$\Rightarrow \left(1 + \frac{r}{100} \right)^2 = \left(\frac{1849}{1600} \right)$$

$$\Rightarrow \left(1 + \frac{r}{100} \right)^2 = \left(\frac{43}{40} \right)^2$$

$$\Rightarrow \frac{100 + r}{100} = \frac{43}{40}$$

$$\Rightarrow \frac{100 + r}{5} = \frac{43}{2}$$

$$\Rightarrow 200 + 2r = 215$$

$$\Rightarrow 2r = (215 - 200)$$

$$\Rightarrow 2r = 15$$

$$\Rightarrow r = 7.5\%$$

73. Option (2) is correct.

The mean of 25 numbers = $(25 \times 14) = 350$

If 3 is added to every number

$$\text{New total} = 350 + (25 \times 3)$$

$$= 350 + 75 = 425$$

$$\text{Now mean} = \frac{425}{25} = 17$$

74. Option (3) is correct.

Since the distance is same,

Let the initial speed = v

Initial time = t minutes

Final speed = $3/5 v = 0.6 v$

Final time = $t + 100$

As we know,

Distance = Speed \times time

$$D = V \times t = 0.6 v \times (t + 100)$$

$$t = 150 \text{ minutes} = \left(\frac{5}{2} \right) \text{ hrs}$$

75. Option (4) is correct.

Total number of the workers whose daily wages are less than ₹ 500 = $25 + 20 = 45$

Total number of the workers whose daily wages are ₹ 600 and above = $40 + 60 = 100$

Hence, the required difference

$$= \frac{100}{200} \times 100 - \frac{45}{200} \times 100 = 100$$

$$= \frac{100}{200} \times 55 = \frac{55}{2} = 27.5\%$$

76. Option (2) is correct.

Powada is the traditional folk art from Maharashtra. In Hindi Powada means 'the narration of a story in glorious terms'. The narratives are always odes to an individual hero, an incident, or a location. The main narrator is Shahir, who plays the duff to keep time. The main singer controls the tempo, which is aided by others in the chorus. The first notable Powada was Agnidas' Afzal Khanacha Vadh (The Killing of Afzal Khan) (1659), which chronicled Shivaji's encounter with Afzal Khan.

77. Option (3) is correct.

Since the Harappan period, Haryana has been the home of various types of terracotta art and sculpture. Furthermore, state youth have been experimenting with various forms of

contemporary art. Haryana's Bhati Chitra is another well-known fresco painting. Illustrious examples of such paintings can be found at Mata Mansa Devi Temple, Kalayat Kapil Muni Temple, and Havelis in Bhiwani, which depict stories from the Jatakas through folk motives and also tell the stories of social development at the time.

78. Option (4) is correct.

The developing voice box in boys is visible as a protruding part of the throat known as the Adam's apple. When the larynx grows in size during puberty, it sticks out in front of the throat. This is visible from the outside enlarged voice box or larynx that develops at the start of puberty. During puberty, everyone's larynx grows, but a girl's larynx does not grow as much as a boy's.

79. Option (3) is correct.

Litmus solution is a purple dye derived from lichens, a plant in the Thallophyta division that is commonly used as an indicator. Litmus solution is purple when it is neither acidic nor alkaline. It is primarily used to determine whether a solution is acidic or alkaline because blue litmus paper turns red in acidic conditions and red litmus paper turns blue in alkaline or alkaline conditions. Purple is the colour of neutral litmus paper.

80. Option (2) is correct.

The stigma is the sticky surface on top of the pistil that traps and holds pollen. The style refers to the tube-like structure that supports the stigma. The carpel is the flower's fourth whorl, located in the centre. The pistil, the female reproductive part of the flower, is housed in the carpels. It is made up of the ovary, style, and stigma. The ovary contains an egg or an ovule. After fertilization, the ovary may transform into a fruit in order to retain the seed. The stigma is supported by a vertical structure called the style, which is located at the top of the ovary. Pollens that have been dispersed stick to the stigma and travel down to the ovary via the style.

81. Option (1) is correct.

Manipur's Imphal valley is a centre for kauna crafts. The Imphal Valley (or Manipur Valley) is an irregular almost oval-shaped valley in the Indian state of Manipur formed by several small rivers that originate in the hilly areas surrounding the valley and flow through it. It receives water from several rivers that flow through it, including the Imphal River, Iri River, Thoubal River, Khuga River, and Sekmai River.

82. Option (3) is correct.

Aluminium smelting is India's second-largest metallurgical industry. It is lightweight, corrosion-resistant, a good conductor of heat, malleable, and strong when mixed with other metals. It is used in the production of aircraft, utensils, and wires. Odisha (formerly Orissa) (Nalco and Balco), West Bengal, Kerala, Uttar Pradesh, Chhattisgarh, Maharashtra, and Tamil Nadu are home to eight aluminium smelting plants. Bauxite is used as a raw material for extracting aluminium.

83. Option (2) is correct.

The Republic of India annexed the erstwhile Portuguese Indian territories of Estado da India, Goa, Daman, and Diu, beginning with an armed action by the Indian Armed Forces in December 1961. This action is known as the 'liberation of Goa' in India. This is known as the 'Invasion of Goa' in Portugal. The people of Dadra and Nagar Haveli had already declared independence.

84. Option (1) is correct.

Prof. Balram Bhargava was the Director-General of the Indian Council of Medical Research as of July 2020. (ICMR). Professor Bhargava is a Cardiology Professor. In addition, he is the Executive Director of the All India Institute of Medical Sciences (AIIMS) in New Delhi, as well as at the Stanford India Biodesign Centre, School of International Biodesign.

85. Option (3) is correct.

'The best thing about you is you,' was written by Anupam

Kher. In 2011, the book was released. The book's goal is to instil positive thinking in readers.

86. Option (1) is correct.

Bhanu Athaiya was the first Indian to win an Academy Award for costume design for Richard Attenborough's Gandhi in 1983. She and John Mollo shared the Academy Award for Best Costume Design.

87. Option (2) is correct.

The Boxing Federation of India has nominated Amit Panghal and Vikas Krishan for the Rajiv Gandhi Khel Ratna award, which will be presented in June 2020. Vikas Krishan, a Commonwealth and Asian Games gold medalist, received the Arjuna award in 2012. BFI's headquarters are in New Delhi.

88. Option (2) is correct.

Kandla is a tidal port that has been designated as a Trade Free Zone and is the largest port in terms of cargo handled. Kandla, officially Deendayal Port, is a port and city in the Kutch district of Gujarat, western India, near Gandhidham. It is one of India's major west coast ports, located on the Gulf of Kutch. It is approximately 256 nautical miles southeast of Pakistan's Karachi port and approximately 430 nautical miles north-northwest of Mumbai port. Kandla port was built in the 1950s as the primary port serving western India.

89. Option (4) is correct.

The Consumer Protection Act of 2019 went into effect on July 20, 2020. Through its various notified Rules and provisions, this new Act will empower consumers and assist them in protecting their rights. The Act includes the creation of the Central Consumer Protection Authority, or CCPA, to promote, protect, and enforce consumer rights.

90. Option (2) is correct.

The Mandal Commission, also known as the Socially and Educationally Backward Classes Commission (SEBC), was established in India in 1979 by the Janata Party government, led by Prime Minister Morarji Desai, with the mission of "identifying the socially or educationally backward classes" in India. It was led by B.P. Mandal, an Indian parliamentarian, and used eleven social, economic, and educational indicators to assess backwardness. In 1980, the commission's report recommended that members of Other Backward Classes (OBC) be granted reservations to 27% of jobs under the Central government and public sector undertakings, based on the rationale that OBCs ("Other backward classes") identified on the basis of caste, social, and economic indicators made up 52% of India's population.

91. Option (3) is correct.

The earth's structure is fundamentally divided into three layers: They are Crust, Mantle, and Core. Crust is the brittle outermost solid part of the earth's surface. Under the oceans, the crust is only about 8 kilometres thick (oceanic crust), and about 32 kilometres thick beneath the continents (continental crust). Because the major constituent elements of the crust are silica (Si) and aluminium (Al), it is often referred to as SIAL. The mantle is the layer beneath the earth's crust. Because silicon and magnesium are major constituent elements of the mantle, it is also known as SIMA. The core is the earth's deepest layer. The Earth's core is thought to be primarily composed of an iron and nickel alloy, hence the acronym NIFE.

92. Option (4) is correct.

Silver is the most electrically conductive element, followed by copper and gold. Silver also has the highest thermal conductivity and light reflectance of any element. Thermal conductivity is a material's inherent ability to transmit or direct heat energy to it. It is one of three thermal energy transfer mechanisms, the other two being convection and radiation. Thermal conductivity measures a metal's ability to conduct heat energy. This property varies between metal types and is critical to consider in applications where high

working temperatures are common. Thermal conductivity in pure metals remains nearly constant as the temperature rises.

93. Option (4) is correct.

On May 17, 1782, the British East India Company and the Marathas signed the Treaty of Salbai. Salbai is located in Madhya Pradesh's Gwalior District. After long negotiations to settle the outcome of the First Anglo-Maratha War, representatives of the Maratha Empire and the British East India Company signed the Treaty of Salbai between Warren Hastings and Mahadaji Scindia.

94. Option (2) is correct.

The 10% reservation in central government jobs for economically weaker sections (EWS) is available to people whose family income is less than Rs. 8 lakhs. The family or individual should not own agricultural land of more than 5 acres. The family or individual should not own or possess a residential flat of 1000 square feet or more. According to the GOI, a person or family should not own a residential plot of 100 square yards or more in notified municipalities.

95. Option (2) is correct.

In the human body, the ovum is the largest cell. The ovum, also known as the egg cell, is the female body's reproductive cell. The ovary is 20 times the size of sperm cells and has a diameter of about 0.1 mm. The human egg (ovum) is the largest cell in the body, and the nerve cell is the longest. The sperm cell is the smallest but also one of the most complex in the human body.

96. Option (4) is correct.

The sharing of the Cauvery River's waters has caused serious conflict between the Indian states of Tamil Nadu and Karnataka. The origins of this conflict can be traced back to two agreements signed in 1892 and 1924 between the Madras

Presidency and the Kingdom of Mysore.

97. Option (4) is correct.

In 1977, IBM and Coca-Cola ceased operations because they were unable to comply with the Foreign Exchange Regulation Act, which stated that foreign investors could not own more than 40% of Indian enterprises. The 1973 amendment to the Foreign Exchange Regulation Act (FERA) that limited foreign equity to 40% was the root cause of the dispute between MNCs and the Government of India. To continue operations, all companies with more than 40% foreign equity had to seek new approval from the Reserve Bank of India (RBI).

98. Option (1) is correct.

The Indian Super League 2019-2020 was won by ATK Football Club. ATK (formerly Atlético de Kolkata) was a West Bengal-based Indian professional football club. The club competed in the Indian Super League, India's top flight, and won the league title in the inaugural 2014, 2016, and 2019-20 seasons, respectively.

99. Option (1) is correct.

Kittur Chennamma, Queen of Kittur, was one of the first Indian rulers to lead an armed rebellion against the British East India Company in 1824, in response to the implementation of the Doctrine of Lapse.

100. Option (1) is correct.

Dhondo Keshav Karve was an Indian social reformer and teacher who was known for advocating for women's education and organizing organizations to remarry Hindu widows. Karve established the Hindu Widows Home, an educational institution in Poona, in 1896 to assist widows who were unable to remarry.