

1. Convert the following Simple sentence into a Complex sentence without changing the meaning:

"Working hard, he passed the exam."

- A) He worked hard and passed the exam.
B) Because he worked hard, he passed the exam.
C) He worked hard; therefore, he passed the exam.
D) He passed the exam with hard work.
2. In the sentence "The book that I bought yesterday is missing," the underlined part is a/an:
- A) Noun Clause
B) Adjective Clause
C) Adverbial Clause
D) Main Clause
3. Which of the following sentences is structurally balanced and correct?
- A) The candidate was praised for her intelligence, dedication, and how well she communicates.
B) The candidate was praised for her intelligence, dedication, and communication skills.
C) The candidate was praised for being intelligent, dedication, and hard work.
D) The candidate was praised for intelligence, dedicated, and working hard.

Fill in the blanks (questions: 4-6) with the most suitable determiners

4. _____ idea was it to leave the gate open all night?
- A) Who's
B) Whose
C) Whom
D) Which
5. I have ___ friends who live in ___ Netherlands, but I haven't visited them in years.
- A) a few / no article
B) few / the
C) a few / the
D) little / the
6. You can take ___ of the two roads; both lead to the same village.
- A) either
B) neither
C) every
D) any
7. Which of the following statements about the Research Development and Innovation Fund, approved by the Union Cabinet, is/are correct?
- I. The RDI Scheme incentivises private sector participation in R&D, with a total outlay of Rs.10 Lakh crore over six years.
II. It aims to finance transformative projects at higher levels of Technology Readiness Level (TRL) of 4 and above.
- Which of the statement are correct.**
- A) I only
B) II only
C) Both I and II
D) Neither I Nor II

8. Consider the following:
- I. PS4-Orbital Experiment Module, designated as POEM, refers to the usage of the spent fourth stage of the Polar Satellite Launch Vehicle (PSLV).
 - II. PSLV-C60 SpaDeX mission is the first POEM Mission of the upcoming series.
- Which of the above statements are correct?

- A) I only
 B) II only
 C) Both I and II
 D) Neither I Nor II

9. Match the following:

- | Sports Awards | | Awarded For | |
|---------------------------------------|----|---|--|
| i. Major Dhyan Chand Khel Ratna Award | a. | Presented for good performance and contributing towards the promotion of sports. | |
| ii. Arjuna Award Lifetime | b. | Given out for consistent good performance over a period of four years. | |
| iii. Maulana Abul Kalam Azad Trophy | c. | Awarded for outstanding performances in sports spanning over a period of four years. | |
| iv. Arjuna Award | d. | Given to the university for top performance in inter-university tournaments over the last one year. | |

Choose the correct Match:

- A) i-c, ii-a, iii-d, iv-b
 B) i-b, ii-d, iii-c, iv-a
 C) i-c, ii-d, iii-a, iv-b
 D) i-b, ii-a, iii-c, iv-d

10. Jammu and Kashmir clinched their maiden Ranji Trophy title by defeating which opposition team?

- A) Maharashtra
 B) Saurashtra
 C) Haryana
 D) Karnataka

11. Given below are two statements:

- I. Bhakti saint Shankaradeva addressed "Vaishnav Dharma" as "Sanatan Dharma".
- II. Shankaradeva's main composition is Kirtanghosh.

Identify the correct statements-

- A) I only
 B) II only
 C) Both I and II
 D) Neither I Nor II

12. Consider the following pairs:

- I. Silappadikaram - Ilango Adigal
- II. Manimegalai - Sittalai Sattanar
- III. Buddhacharita - Ashvaghosha

Which of the above pairs are correctly matched?

- A) I only
 B) I and II only
 C) II and III only
 D) I II and III

18. Chronologically arrange the following states based on the elevation to the status of a state under the Constitution of India.

- I. Himachal Pradesh
 - II. Nagaland
 - III. Arunachal Pradesh
 - IV. Statehood to Sikkim
- A) I-II-IV-III ✓
B) II-I-III-IV ✓
C) II-I-IV-III
D) I-II-III-IV ✗

19. Which of the following are bacterial diseases?

- I. Tuberculosis ✓
- II. Cholera
- III. Hepatitis
- IV. Leprosy
- V. Measles
- VI. Yellow Fever

Choose the correct option:

- A) I, II and V only
B) I, II and IV only
C) I, II, IV and VI only
D) I, II, IV, V and VI only

20. Consider the following statements about Laterite soils.

- I. These are formed in areas with high temperatures and low rainfall. —
- II. These soils contain excess iron oxide, giving them a reddish colour. ✓
- III. Lime and silica get leached due to atmospheric conditions.

Which of the above statements are INCORRECT?

- A) I and II only ✓
B) I only ✓
C) II only ✓
D) None of the above ✓

21. Match the following.

Glaciers	States/UT
i. Kangto Glacier	a. Ladakh
ii. Rimo Glacier	b. Arunachal Pradesh
iii. Zemu Glacier	c. Sikkim
iv. Bara Shigri	d. Himachal Pradesh

Choose the correct match:

- A) i-a, ii-b, iii-c, iv-d ✓
B) i-b, ii-c, iii-d, iv-a ✗
C) i-b, ii-a, iii-c, iv-d ✓
D) i-a, ii-c, iii-b, iv-d ✗

22. If a group of tourists moves from Jammu to Srinagar by road, then most likely they will cross which mountain pass?

- A) Fotu La
- B) Bara Lacha La
- C) Rohtang Pass
- D) Banihal Pass

23. Which of the following pairs are correctly matched?

- | | |
|--------------------|----------------|
| I. Bagh-e-Bahu | ↳ Tawi River |
| II. Nagin Lake | ↳ Jhelum River |
| III. Sasher Kangri | ↳ Nubra River |

Choose the correct match:

- A) I only
- B) I and III only
- C) I and II only
- D) I, II and III

24. Arrange the following processes in a correct sequence.

- I. Scouring
- II. Sorting
- III. Shearing
- IV. Rolling
- V. Cleaning

Choose the correct option:

- A) I-III-II-IV-V
- B) I-III-II-V-IV
- C) III-I-II-V-IV
- D) III-I-II-IV-V

25. What are the by-products of anaerobic respiration?

- I. Alcohol
- II. Carbon dioxide
- III. Water
- IV. Energy
- V. Lactic Acid

Choose the correct option:

- A) All of the above
- B) I, III, IV and V only
- C) I, II and V only
- D) I, II, IV and V only

(Set - D)

P.T.O.

26. Consider the following statements.
- I. Generally, metal oxides are acidic in nature.
 - II. Generally, non-metal oxides are basic in nature.
- Which of the above statements are INCORRECT?
- A) I only
 - B) II only
 - C) Both I and II
 - D) Neither I Nor II

27. Match the following :

Fish Culture	Example
i. Surface Feeders	a. Silver Carp
ii. Column Feeders	b. Grass Carp
iii. Bottom Feeders	c. Common Carp

Choose the correct match:

- A) i-b, ii-c, iii-a
 - B) i-a, ii-c, iii-b
 - C) i-a, ii-b, iii-c
 - D) i-b, ii-a, iii-c
28. In the context of a concave mirror, if an object is placed at the focus, then-
- I. The image will be formed at infinity.
 - II. The size of the image formed will be highly enlarged.
 - III. The nature of the image will be virtual and erect.
- Which of the above statements stands true?
- A) I only
 - B) I and II only
 - C) II and III only
 - D) I, II and III
29. Which of the following National Parks encompasses the catchment area of Kiber, Nanth, and Kiyar Nallas, all of which drain south-west into the Marwah river, locally called Mariv Sudir?
- A) Dachigam National Park
 - B) Kishtwar National Park
 - C) Kazinag National Park
 - D) Salim Ali National Park
30. Which tributary of the river Jhelum originates from Lolab Valley in north south direction and joins the waters of the outfall channel of river Jhelum about 6.5 Km. downstream of Sopore town.
- A) Doodhganga
 - B) Pohru
 - C) Lidder
 - D) Rambiar

37. The average score of 20 students in a class is 75. It is later found that 5 students had been absent. In a re-examination, 4 of them scored 85 each. After including the marks of all 5 students, the overall average becomes 77. Determine the marks scored by the fifth student.

$$\frac{77 \times 20}{1540}$$

- A) 80
C) 87

$$\begin{array}{r} 1500 \\ 340 \\ \hline 1840 \end{array}$$

$$\frac{1540}{10} = 154$$

- B) 85
D) 89

$$\begin{array}{r} 1500 \\ 340 \\ \hline 1840 \end{array}$$

38. The average score of a group of n students in a mathematics competition is 60. A series of adjustments is made to the data. The top 25% of students (by score) are removed from the data set. Their average score was 80. A new group of 10 students joins the remaining group. This new group has an average score of 40. After these changes, it was discovered that a score belonging to one of the original remaining students was misrecorded as 100 instead of 80. After all departures, additions, and corrections, the final average score of the group is exactly 50. What was the original number of students (n)?

$$\begin{array}{r} 1540 \\ 1540 \\ 1500 \\ 340 \\ \hline 1840 \\ 1876 \\ 1776 \\ \hline 700 \end{array}$$

- A) 36
C) 44

$$n = 60$$

- B) 40
D) 48

39. A, B, and C can complete a complex engineering project in 25 days working together. The ratio of their individual efficiencies is 4 : 3 : 5 respectively. The project begins with all three working together. However, the following events occur: After 5 days, A leaves the project. To compensate for A's departure, B increases his efficiency 33.3%, while C continues to work at his original efficiency. C leaves d days before the completion of project. The entire project is completed in exactly 35 days. What is the value of d ?

- A) 4
C) 6

$$\frac{25 \times 12}{300}$$

- B) 5
D) 8

40. A contractor assigns a task to two workers, A and B. Worker A can complete the work in x days, while worker B takes 5 days more than A. Working together, they can finish the task in 6 days. Find the value of x .

$$\begin{array}{l} A \rightarrow 1/x \\ B \rightarrow 1/(x+5) \\ \hline \rightarrow 1/6 \end{array}$$

- A) 12
C) 10

- B) 8
D) 6

$$\frac{1}{x} + \frac{1}{x+5} = \frac{1}{6}$$

41. The speed of a car travelling from city A to city B was recorded as 60 km/h, and the journey time was noted as 5 hours. However, the actual speed was 50 km/h. Calculate the real time taken for the trip.

$$300$$

- A) 4.5 hours
C) 5.5 hours

- B) 6 hours
D) 5 hours

$$\begin{array}{l} 60 : 50 \\ 60 \\ \hline 300 \end{array}$$

42. A train covers a distance S at a speed U . If its speed is increased by 10 km/h, the travel time reduces by 2 hours, and if increased by 20 km/h, the time reduces by 3 hours. Find the distance S .

- A) 60 km
C) 120 km

- B) 90 km
D) 150 km

$$\frac{S}{2+10} = \frac{S}{U+10}$$

(Set - D)

$$\frac{60}{50}$$

43. Match the mathematical descriptions (List-A) with their corresponding ratios (List-B):

List -A	List -B
i. Sub-duplicate ratio of 25:36	a 9:16
ii. Duplicate ratio of 3:4	b. 3:2
iii. Reciprocal ratio of 5:7	c 5:6
iv. Compound ratio of 2:3 and 9:4	d. 7:5

Choose the correct match:

- A) i-d, ii-a, iii-b, iv-c
 B) i-b, ii-c, iii-a, iv-d
 C) ~~i-c, ii-d, iii-a, iv-b~~
 D) ~~i-c, ii-a, iii-d, iv-b~~ ✓
44. If $a:b = c:d$, which of the following is correct using Componendo and Dividendo?
 A) ~~$(a+b):(a-b) = (c+d):(c-d)$~~ B) $(a-b):(a+b) = (c+d):(c-d)$
 C) $(a+c):(b+d) = (a-c):(b-d)$ D) $(a+b):c = (b+d):a$

45. A high-end jeweller manufactures gold bars where the price of a bar is directly proportional to the square of its weight. During transit, a bar of weight 5 units and worth Rs. 25,000 accidentally breaks into two pieces with weights in the ratio 2:3. What is the total reduction in the value of the gold due to this breakage?
 A) Rs. 5,000 B) Rs. 12,000
 C) Rs. 13,000 D) Rs. 14,000

46. If $x/a = y/b = z/c = k$, then find the value of: $(bx + cy + az)/k$
 A) 0 B) $\frac{abc}{k}$
 C) $a + b + c$ D) $\frac{ab + bc + ac}{k}$

$$\frac{x}{a} = \frac{y}{b} = k$$

$$bx + cy + az = k$$

47. Match the scenarios in List-I with the correct "Present Age of the Older Person" in List-II.

List-I	List-II
P. The sum of the ages of a father and son is 45 years. Five years ago, the product of their ages was four times the father's age at that time.	1) 16years
Q. A man is 24 years older than his son. In two years, his age will be twice the age of his son.	2) 36years
R. The ratio of the ages of A and B is $\frac{3}{4}$. The sum of their ages is 28.	3) 46years
S. 10 years ago, a father was 4 times as old as his son. 2 years hence, he will be twice as old as his son.	4) 34 years

$$F + S = 45 \quad x = 45$$

$$(F-5) \times (S-5) = 4(F-5)$$

$$(x-5) \times (45-x) = 4(x-5)$$

$$\frac{12}{4} = \frac{16}{4}$$

Choose the correct match:

- A) P-1, Q-2, R-3, S-4 B) P-2, Q-1, R-3, S-4
 C) P-2, Q-3, R-1, S-4 D) P-3, Q-2, R-4, S-1

48. Six years ago, the ratio of the ages of Kunal and Sagar was 6:5. Four years hence, the ratio of their ages will be 11:10. Based on this information, identify the single correct statement from the list below:

- A) Sagar is currently 18 years old
 B) Sum of their current ages is 32 years
 C) Six years ago, Kunal was 12 years old
 D) 2 years ago, the ratio of their ages was 5:4

$6x$ $5x$
 $n-6$ $n-5$

$\frac{6x+4}{5x+4} = \frac{11}{10}$
 $60x+40 = 55x+44$
 $5x = 4$
 $x = 4/5$

49. An HR department is auditing the ages of its 5-member executive board A, B, C, D, and E, to comply with a "balanced experience" policy. The average age of the board members is 25 years. Member D (age 30) quits and is replaced by Member F. The new average age becomes 24 years.

$n+4$ $5n+4$

Additionally, Member B is 5 years younger than Member C. Member A is 2 years older than Member F. Member E and Member B have same age.

What is the current age of Member E?

- A) 20 years
 B) 21 years
 C) 25 years
 D) 27 years

$n+6+7$
 $n+6+7$

$\frac{5n+10}{5n+10} = \frac{11}{10}$

50. The present age of a man is equal to the square of his son's age. One year ago, the man's age was exactly eight times the age of his son. Two years hence, the sum of their ages will be 6 more than six times the son's age at that time. If the son's present age is 'x', which of the following represents the man's present age?

$5n+100 = 55n+110$
 $5n = 10$
 $x = 1/2$

- A) 25 years
 B) 36 years
 C) 49 years
 D) 64 years

$6x+6 \geq 9$

51. A coin is tossed 5 times. Each head contributes +1 and each tail contributes -1. What is the probability that the total sum is exactly +1?

- A) 5/16
 B) 5/32
 C) 10/16
 D) 2/3

$n+6$

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

52. A die is thrown 3 times. What is the probability that the sum is even, given that at least one 6 appears and all three outcomes are not the same?

- A) 1/2
 B) 3/5
 C) 4/7
 D) 5/9

$\frac{5^4}{6^4}$

53. A bag contains 4 red, 3 blue, and 3 green balls. Three balls are drawn without replacement. What is the probability that exactly two balls are of the same colour and one is different?

- A) 18/20
 B) 13/45
 C) 30/45
 D) 13/20

54. Two numbers are chosen at random from the set {1, 2, 3, 4, 5, 6} without replacement. What is the probability that their sum is prime?

- A) 1/3
 B) 2/5
 C) 7/15

(Set - D)

61. A wooden toy is shaped like a rocket with a cone mounted on a cylinder. The total height of the rocket is 26 cm, while the height of the conical part is 8 cm. The base of the conical portion has a diameter of 12 cm, while the base diameter of the cylindrical portion is 6 cm. The conical portion is to be painted orange and the cylindrical portion yellow.

Calculate the total cost of painting the orange portion in terms of π , if the cost of painting is 0.1 Rs per mm^2 .

- A) 870π B) 8700π
C) 2025π D) 202.5π

62. A right circular cylinder and a sphere have the same radius r . If their total surface areas are also exactly equal, what is the ratio of the volume of the cylinder to the volume of the sphere?

- A) 3 : 4 B) 2 : 3
C) 9 : 8 D) 3 : 2

63. HUMAN : NOSE :: FROGS : ___ ?

- A) NOSE B) GILLS
C) SKIN D) LUNGS

64. WOMEN : EOMNW :: APPLE : ___ ?

- A) EALSP B) AELPP
C) LPPEA D) EALPP

65. In a certain language, 'CHANGE' is written as 'BDFHIO' and 'AMEND' is written as 'BEFNO'. How will 'SHIFT' be coded in that language?

- A) GLTU B) TFHIS
C) TIJGU D) FHSIT

66. If RAM=16 and DAM=9, then DREAMS=?

- A) 36 B) 30
C) 28 D) 32

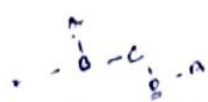
67. Pointing to a photograph, Anisha said, "I did not have any siblings, but that woman's father is the only son of my grandfather". Whose photograph was it?

- A) Her mother B) Herself
C) Her cousin D) Her daughter

68. Introducing a woman, Rohan said, "Her mother is the only daughter of my mother-in-law". How is the woman related to Rohan?

- A) Wife B) Niece
C) Daughter D) Mother

69. Arpan is the son of Barkha. Barkha has a sister Charu, who has a son Dharmesh and a daughter Aditi. Dharmesh has a paternal uncle Feroz. How is Arpan related to Dharmesh?
 A) Father B) Son
 C) Uncle D) Cousin



70. "My father is the only son of your Father", a man said to a woman. How is the woman related to the man?
 A) Sister-in-law B) Paternal aunt
 C) Mother D) Sister



71. Find the odd one out
 A) Tsunami B) Cyclone
 C) Nuclear explosion D) Volcano

72. Which pair is the odd one out
 A) 32-18 B) 63-42
 C) 77-42 D) 95-68

73. Which letter cluster is the odd one out?
 A) KMI B) TVR
 C) FHE D) MOK

74. Find the odd number in the set
 515, 732, 1725, 346
 A) 515 B) 732
 C) 1725 D) 346

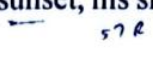
75. A man is facing north. He turns 135 degrees in the anti-clockwise direction. Then he turned 180 degrees in a clockwise direction. In which direction is he facing now?
 A) North-west B) South-east
 C) North-east D) South-west



76. At 9:15 am, the minute hand of a clock faces west. Then, at 6 pm on the same day, in which direction will the hour hand point?
 A) South B) West
 C) East D) North



77. A man walks 57 m, turns right and walks 76 m, then turns right again and walks 57 m. If at the time of sunset, his shadow is to his left, in which direction did he start?
 A) South B) East
 C) West D) North



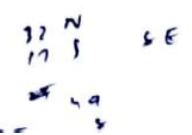
78. Rehman travelled 32km north, 17km south and then 8km east. How far is he away from his starting point and in which direction?
 A) 13km, North B) 17km, North-East
 C) 13km, North-East D) 17km, East



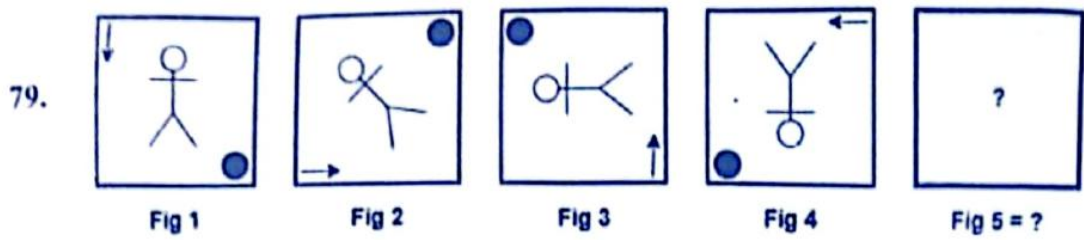
(Set - D)



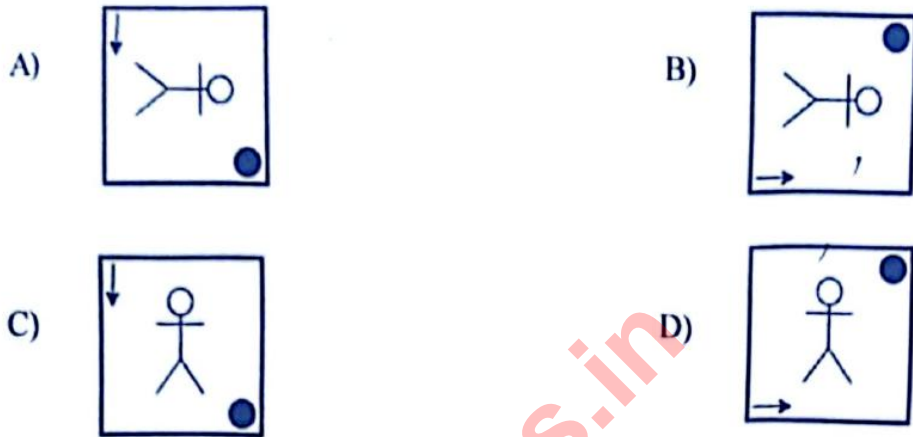
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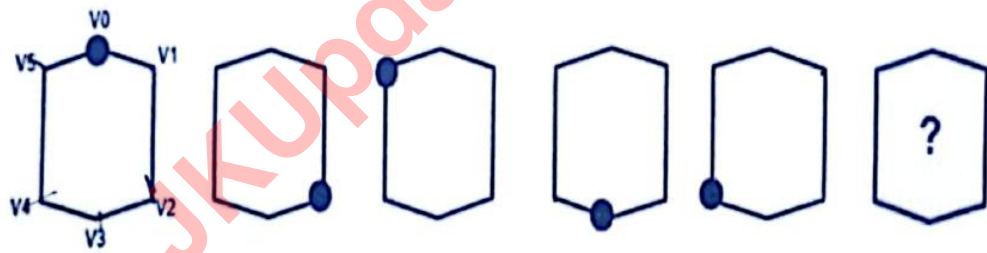
[P.T.O.]



Answer Options:



80. The position of the dot in the question mark (?) figure is



- A) V0
- B) V2
- C) V3
- D) V4

81. A circle is divided into 5 equal slices. In each figure, x slices are removed, and the remaining slices form a pattern that corresponds to a number.

Observe the following:

Figure 1: When 2 slices are removed, the remaining pattern corresponds to 211.

Figure 2: When 1 slice is removed, the remaining pattern corresponds to 1023.

When 0 slices are removed, what number will the remaining figure represent?

- A) 3125
- B) 7776
- C) 6561
- D) 2401

90. Find the next term in the given series

8, 7, 12, 33, 128 __ ?

A) 512

B) 384

C) 540

D) 635

91. If 'BEAR' is written as 'AFBQ' and 'LION' is written as 'KJPM'. How will 'KITE' be written?

A) JJUD

B) LJUF

C) FJSS

D) LUFJ

92. In a certain code language, 'CANDLE' is written as 13451214. How will 'LIGHT' be written in the same language?

A) 8792012

B) 7891220

C) 9812720

D) 1297820

93. $17 : 136 :: 27 : \underline{\quad} ?$

A) 223

B) 269

C) 243

D) 257

94. CUBE : 36 :: CUBOID : $\underline{\quad} ?$

A) 74

B) 36

C) 48

D) 24

Fill in the blanks in questions (95-96) with the most appropriate articles.

95. $\underline{\quad}$ rich should help $\underline{\quad}$ poor.

A) A, a

B) The, a

C) No article, the

D) The, the

96. $\underline{\quad}$ juice in this jug is bitter, but $\underline{\quad}$ juice is generally good for health.

A) No article, no article

B) The, the

C) The, no article

D) No article, the

97. Identify the correct sentence(s) regarding the use of article "The":

I. The higher you climb, the colder it gets.

II. He is the most hardworking of the two brothers.

III. The gold is a precious metal.

Choose the correct option:

A) Only I

B) I and II

C) I and III

D) All are correct

98. Identify the correct use of articles with plural nouns:

- I. Lions are fierce animals.
- II. Lions of Gir forest are famous worldwide.
- III. The lions we saw at the zoo were sleeping.

Choose the correct option:

- A) Only II
- B) Only I and III
- C) Only II and III
- D) All are correct

99. Select the most appropriate synonym of the word **SAGACIOUS**

- A) Silly
- B) Stupid
- C) Sincere
- D) Wise

100. Select the most appropriate synonym of the word **CHASTE**

- A) Immaculate
- B) Wanton
- C) Ornate
- D) Debauched

101. Select the most appropriate antonym of the word **TACITURN**

- A) Prolix
- B) Breviloquent
- C) Traumatise
- D) Reticent

102. Select the most appropriate antonym of the word **IMPULSIVE**

- A) Impetuous
- B) Whimsical
- C) Reflective
- D) Unpremeditated

Fill in the blanks in questions (103-106) with the most appropriate prepositions.

103. He was acquitted ___ the murder charge, but he was later charged ___ theft and sentenced ___ three years.

- A) from, for, with
- B) of, with, to
- C) off, of, for
- D) with, about, in

104. The young man was absorbed ___ his work and was oblivious ___ the noise occurring ___ him.

- A) in, by, besides
- B) with, of, beside
- C) in, to, around
- D) for, about, towards

105. I cannot provide you ___ a loan, as I am already beset ___ financial difficulties and am answerable ___ my creditors.

- A) with, with, to
- B) for, by, for
- C) to, of, with
- D) against, from, about

106. While the professor was ___ the middle ___ a lecture, a student broke ___ with a question.

- A) at, for, out
- B) in, of, in
- C) within, of, through
- D) during, of, up

107. In the sentence, "Radha may visit the museum", the word 'may' is a-
- A) Main verb
B) Transitive verb
C) Gerund
D) Modal verb
108. Identify the sentence where the verb "have" acts as a main verb rather than an auxiliary:
- A) I have finished my lunch.
B) They have been working all day.
C) We have a meeting at ten.
D) Have they seen the movie yet?
109. Select the most appropriate option
"When Mrs. X was younger, she ___ run five miles without stopping."
- A) can
B) might
C) could
D) should
110. Select the correct spelling for the word meaning "a person who organises and operates a business":
- A) Entreprenure
B) Entrepreneur
C) Entraprenuer
D) Entreperneur
111. Which spelling is correct for the word meaning "a small, exclusive group of people"?
- A) Clike
B) Cleek
C) Clique
D) Cleaque
112. Select the correct spelling for the word meaning "an expert judge in matters of taste":
- A) Connosseur
B) Connoiseur
C) Conoisiseur
D) Connoisseur
113. The CEO's mercurial temperament made it difficult for the staff to predict how he would react to the news.
Choose the SYNONYM for mercurial in this context:
- A) steadfast
B) dependable
C) capricious
D) lethargic
114. Her laconic reply suggested that she was not interested in continuing the conversation.
Choose the ANTONYM for laconic in this context:
- A) condensed
B) garrulous
C) succinct
D) taciturn

(Set - D)

