

VERBAL REASONING

Complete the sentences by choosing the best option, from the given lettered choices (A to D) below each.

1. Naima met Salma _____ the afternoon.

- A. after
- B. at
- C. before
- D. in

2. The Queen fell _____ ill and all hopes of her recovery vanished.

- A. easily
- B. hardly
- C. scarcely
- D. seriously

Four lettered pairs (A to D) follow a related pair of words given in the question. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair in capital letters.

3. BELL: RING::

- A. clock: watch
- B. guitar: music
- C. paper: pencil
- D. wind: whistle

4. HELP: HINDER::

- A. hurry: delay
- B. smile: laugh
- C. steal: thief
- D. travel: journey

Choose the lettered word or phrase that is MOST NEARLY OPPOSITE in meaning to the word in capital letters.

5. A LOAFER is one who does not like to _____.

- A. shake
- B. sing
- C. smile

D. work

Choose the lettered word or phrase that is **MOST NEARLY SIMILAR** in meaning to the word in capital letters.

6. If information gets **MIX-UP**, it becomes _____.

- A. confusing
- B. dangerous
- C. old
- D. sensitive

Questions 7-8 are based on the following paragraph.

Syed Ahmed had gone to England on a dual mission to learn and to teach. His mission of learning was fulfilled as well as it might be in a year and five months. He had learnt enough to understand what was there in the character, manner, modes, and instructions of the British that had made them rulers of a vast empire. His teachings mission, however, was not so successful. The British were not interested in being taught to understand and respect Islam. They had more important things to think about as for example, the discoveries and inventions of science, the reforms of the society, human progress, and freedom of thought and individual liberty. As for religion, well, if it was necessary or useful to have one, Christianity was good enough, whether as a mythology, a moral code, or a ritual system. Syed Ahmed, therefore, had to find other pupils to teach. So, he came back home full of ambitious plans to impart in his Muslim countrymen all that he had learnt in England as well as that he had gone there to teach but had been unable to.

7. The type of this paragraph is _____.

- A. descriptive
- B. expository
- C. narrative
- D. science

8. The paragraph revolves around _____.

- A. Syed Ahmed's dual mission
- B. Syed Ahmed's failure to teach
- C. Syed Ahmed's help for Muslims
- D. Syed Ahmed's visit to England

QUANTITATIVE REASONING

9. Evaluate $[-30 + 47] - 2[15 + (-119)] = \underline{\hspace{2cm}}$.
- A. -289
 - B. -191
 - C. 191
 - D. 225
10. Which of the following is a binary operation?
- A. Intersection
 - B. Square
 - C. Square root
 - D. Transpose
11. A train is moving with a speed of 30km/h crosses a pole in 21 seconds. The length of train is $\underline{\hspace{2cm}}$.
- A. 25m
 - B. 150m
 - C. 175m
 - D. 630m
12. If $f(x) = (x^2 - 3)$ and $f(x) = 1$ then value of x is $\underline{\hspace{2cm}}$.
- A. -3, 2
 - B. 2, -3
 - C. -2, 2
 - D. 4, -2
13. In a tournament 8 teams were playing. Each team has to play a match with every other team. Two semifinals and one final are played. How many total matches were played?
- A. 25
 - B. 28
 - A. 31
 - B. 34
14. The angle between the hands of a clock at 4:30 is $\underline{\hspace{2cm}}$.
- A. 30°
 - B. 35.5°
 - C. 37.5°
 - D. 40°

PHYSICS

15. The mathematical formula $F = ma$ belongs to _____.
- A. Newton's First Law
 - B. Newton's Second Law
 - C. Newton's Third Law
 - D. Newton's Law of Interference
16. Which one of the following mechanisms is exhibited by an oil film floating on water surface with powerful color pattern?
- A. Diffraction of light
 - B. Interference of light
 - C. Reflection of light
 - D. Refraction of light
17. Which of the following maximum value reached by the voltage or current in one cycle of alternating current?
- A. Instantaneous value
 - B. Peak to peak value
 - C. Peak value
 - D. Root means square value

COMPUTER SCIENCE

18. Computer register is a _____ in computer operation.

- A. memory type
- B. network device
- C. physical device
- D. program type

19. 'Bootstrap' specifically helps in the _____ process of computer.

- A. arithmetic
- B. backup
- C. networking
- D. turn-on

20. The _____ is generally NOT a network topology of computer networks.

- A. mesh
- B. ring
- C. stage
- D. star

MATHEMATICS

21. The sum of the series $2 + 2/3 + 2/9 + \dots$ is _____.

- A. 2
- B. 3
- C. 3.4
- D. 3.5

22. What is the rank of the matrix $\begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 6 \\ 5 & 10 & 15 \end{bmatrix}$?

- A. 1
- B. 2
- C. 3
- D. 0

23. Solution of the equation $\sin^2 x = 1$ is _____.

- A. $\pi/4, 3\pi/4$
- B. $3\pi/4, \pi/2$
- C. $\pi/4, 3\pi/2$
- D. $3\pi/2, \pi/2$

ANSWER KEY

1	D	7	C	13	A	19	D
2	D	8	A	14	D	20	C
3	D	9	D	15	B	21	B
4	A	10	A	16	B	22	A
5	D	11	C	17	A	23	D
6	A	12	C	18	A		