

LOGICAL ABILITY

Time: 25 Minutes

Direction for questions 1 to 7: Complete the following series.

- 11, 26, 51, 76, ____
(A) 101 (B) 115
(C) 125 (D) 133
- 23, 57, 1113, 1719, ____
(A) 2329 (B) 2931
(C) 3137 (D) 3743
- VIQ, TAC, WJR, VCE, XKS, XEG, ____
(A) YGL (B) ZFH
(C) YLT (D) YNR
- 25 : 343 :: 49 : ____
(A) 121 (B) 343
(C) 512 (D) 1331
- BIDM : DLPR :: HSBC : ____
(A) PVEH (B) PXDH
(C) PVHH (D) RVHD
- 2Y5 : 4W9 :: 3J6 : ____
(A) 4W9 (B) 6L4
(C) 8C1 (D) 6N4
- Aeroplane : Pilot :: Ship : ____
(A) Driver (B) Chef
(C) Captain (D) Marshal

Direction for questions 8 to 11: Find the odd man out.

- (A) 38 – 121 (B) 48 – 144
(C) 68 – 196 (D) 98 – 361
- (A) BDGC (B) DHKR
(C) FLOH (D) EJMZ
- (A) 6V12 (B) 2H4
(C) 9F18 (D) 3R6
- (A) Mercury (B) Mars
(C) Moon (D) Venus

Direction for questions 12 to 14: Choose the correct alternative from the given choices.

- In a certain code language the word PRIVATE is coded as AEIPRTV then how is the word PRESENT coded in that language?
(A) EEPNRST (B) EENPRST
(C) EPSNERT (D) EENRPST
- In a certain code, if the word CHLORATE is written as DFOKWUAW then how is the word PHOSPHATE written in that code?
(A) QFRUOBHLN (B) QFROBUHLN
(C) QFHROUBLN (D) QFROUBHLN
- In a certain code, if the word PRESSURE is written as KIVHHFIV then how is the word SOLUTION written in that code?
(A) HLOUTRLM (B) HLPGFRLM
(C) HLOFGRLM (D) HLOGTROM

Direction for questions 15 and 16: These questions are based on the following information.

Six persons—P through U—are standing in a queue in the increasing order of their heights so that the shortest is at the front of the queue and the tallest is at the back. Furthermore,

- U is the shortest.
- Exactly two persons are taller than T.
- P is taller than S and exactly two persons stand between P and S.
- Q is taller than P.

15. Who is the second tallest person?

- (A) T (B) R
(C) S (D) P

16. Who is/are the persons in between P and R?

- (A) Only T (B) Q and S
(C) T and U (D) Only S

Direction for questions 17 to 19: These questions are based on the following data.

Eight persons A, B, C, D, E, F, G, and H attended a conference and are sitting around a circular table. Among them, there are CEOs of 4 companies who came along with one assistant each. Each CEO has his assistant sitting to his right.

- Assistants of C and A are sitting opposite each other.
- E, who is the assistant of B, is sitting opposite F.
- E was not sitting adjacent to A.
- G is neither adjacent nor opposite to D.

17. Who is to the left of A?

- (A) D (B) G
(C) F (D) H

18. Who is the assistant of C?

- (A) D (B) G
(C) E (D) H

19. If H is opposite to G, then D is to the right of ____.

- (A) A (B) B
(C) F (D) H

Direction for questions 20 to 24: These questions are based on the following data.

In a class, 50 students failed in Maths.
 40 students failed in Physics.
 30 students failed in Chemistry.
 10 students failed in Physics and Chemistry.
 10 students failed in Maths and Physics.
 No student failed in both Maths and Chemistry.
 None of the students failed in all the three subjects.

20. How many students failed atleast in one subject?
 (A) 50 (B) 100
 (C) 75 (D) 125
21. What is the ratio of the number of students who failed in Maths and Physics to that who failed in Physics and Chemistry?
 (A) 1 : 2 (B) 2 : 1
 (C) 1 : 1 (D) 4 : 3
22. How many students failed in exactly two subjects?
 (A) 10 (B) 20
 (C) 30 (D) 40
23. The number of students who failed in only Maths, in only Physics and in only Chemistry respectively is
 (A) 40, 20, 20 (B) 20, 40, 20
 (C) 20, 20, 40 (D) 50, 40, 30
24. Which of the following statements is true?
 (A) The number of students who failed in only Maths equals to that of the students who failed in only Physics.
 (B) The number of students who failed in only Maths equals to that of the students who failed in only Physics or in only Chemistry.
 (C) The number of students who failed in all the three subjects is 10.
 (D) None of these.

Direction for question 25 to 30: Select the correct alternative from the given choices.

25. In the following addition each letter represents a different digit from 0 to 9, which of the following is a possible number represented by FAN ?

$$\begin{array}{r} \text{H} \quad \text{A} \quad \text{N} \\ \text{F} \text{ A} \quad \text{F} \quad \text{N} \\ \hline 5 \quad 5 \quad \quad 8 \quad \quad 8 \end{array}$$

- (A) 434 (B) 534
 (C) 345 (D) 135
26. At what time between 10 O' clock and 11 O' clock are the hands of the clock together?
 (A) $54\frac{6}{11}$ past 10 (B) $27\frac{8}{11}$ past 10
 (C) Both A and B (D) None of these
27. How many times the hands of a clock are at right angles in a day?
 (A) 24 (B) 22
 (C) 44 (D) 48
28. On a particular day if it is found that a clock is showing 10 minutes less at 1:00 pm and 5 minutes more at 6:00 pm on the same day. At what time did the clock show the correct time?
 (A) 3 hr 20 min (B) 4 hr 20 min
 (C) 5 hr 40 min (D) 6 hr 40 min
29. If 21st March 2000 was a Monday, which day of the week will be 21st March 2003?
 (A) Tuesday (B) Friday
 (C) Thursday (D) Wednesday
30. The movie of my favorite hero is going to be released on Wednesday. To watch the movie on the first day of release, I booked my ticket the day before yesterday. If I watch the movie on the fourth day from today, on which day of the week did I book my ticket?
 (A) Wednesday (B) Thursday
 (C) Friday (D) Saturday

ANSWER KEYS

1. B 2. A 3. C 4. D 5. C 6. B 7. C 8. D 9. A 10. A
 11. C 12. B 13. D 14. C 15. D 16. A 17. C 18. D 19. D 20. B
 21. C 22. B 23. A 24. B 25. B 26. A 27. C 28. B 29. C 30. B