APTITUDE TEST

Each question has a single correct answer.

Bubble the correct answer on the answer sheet.

For questions 1 to 30, each correct answer. will get 3 marks, while a wrong answer will get –1 mark.

For questions 31 to 40 each correct answer will get 1 mark, while a wrong answer will get – (1/3) mark.

No mark will be given for unattempted questions.

1. In the following number series, how many 8s are immediately preceded by a number which does not divide it but followed by a number which divides it ?

   2, 8, 2, 8, 3, 8, 5, 8, 8, 5, 3, 2, 8, 2, 3, 8, 4, 7, 1, 5, 8, 3, 8, 2, 8, 6

   (A) 1

   (B) 2

   (C) 3

   (D) 4

2. If the first half of the English alphabets is written in reverse order and the second half is unaltered, which letter will be exactly midway between the ninth letter from the left and the tenth letter from the right ?

   (A) D

   (B) N

   (C) P

   (D) A

3. Which of the following will come in place of the question mark (?) in the following sequence ?

   6 C 7 ; 8 F 10 ; 11 J 14 ; 15 O 19 ; ?

   (A) 20 U 24

   (B) 19 U 25

   (C) 20 U 25

   (D) 25 U 20

4. In a certain code language, (i) 'good morning' is written as 'sao topee'; (ii) 'sao seng' is written as 'very good'; and (iii) 'very and good' is written as 'sao seng nus'. Which of the following represents the code for 'and' ?

   (A) nus

   (B) seng

   (C) sao

   (D) topee

(3)

(JECA)

5. Find the missing number in the sequence : 840, 168, 42, 14, 7 ?

(A) 7

(B) 5

(C) 3

(D) 2

6. A cube is painted green on all sides. It is then cut into 64 cubes of equal size. How many of these smaller cubes are painted on one side only ?

(A) 8

(B) 4

(C) 16

(D) 24

7. The quantity of water in a cistern doubles every minute. It gets filled in 10 minutes. In how many minutes will it be half filled ?

(A) 4

(B) 5

(C) 8

(D) 9

8. In an imaginary system, the digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 are substituted by a, b, c, d, e, f, g, h, i and j respectively. The value of $(ef \times f - ba) \div ed$ is equal to :
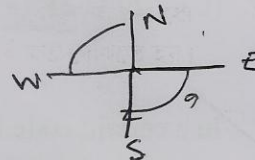
(A) 2

(B) 3

(C) 4

(D) 5

9. The directional post is erected on a crossing. In an accident, it was turned in such a way that the arrow which was first pointing east is now showing south. A passerby went in a wrong direction thinking it is west. In which direction is he actually travelling now ?

(A) South

(B) North

(C) East

(D) West

10. If the first day of a non-leap year falls on a Friday, what would be the last day of the year ?
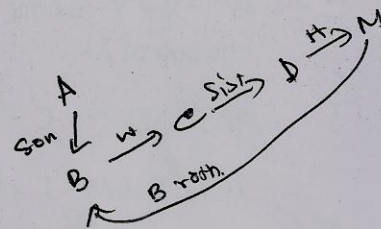
(A) Saturday

(B) Friday

(C) Wednesday

(D) Tuesday

11. Binny, the son of Amit was married to Champa, whose sister Dimpy was married to Mohit, the brother of Binny. How is Dimpy related to Amit ?

(A) Sister

(B) Sister-in-law

(C) Daughter-in-law

(D) Cousin

12. What will be the middle digit of the number that comes in the middle after arranging the following numbers in the descending order ?
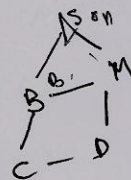789, 723, 659, 595, 713, 785, 689

(A) 8

(B) 2

(C) 5

(D) 1

13. Some boys (more than 15 boys) are sitting in a row. X is sitting fourteenth from the left and Y is seventh from the right. If there are four boys between X and Y, how many boys are there in a row ?

(A) 22

(B) 23

(C) 25

(D) 26

14. If in a code 'light' is called 'dark', 'dark' is called 'green'; 'green' is called 'blue'; 'blue' is called 'red'; 'red' is called 'white'; 'white' is called 'yellow'; and 'yellow' is called 'pink'' what is the colour of blood in this code ?
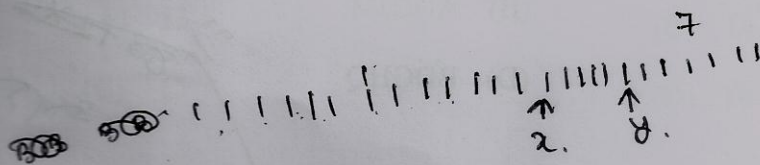
(A) red

(B) pink

(C) yellow

(D) white

15. Rabi remembers that his father's birthday is after 16th but before 21st of April, while his sister Rani remembers that her father's birthday is before 22nd but after 19th April. On which date is the birthday of their father ?

(A) 20th April

(B) 19th April

(C) 17th April

(D) 18th April

(5)

(JECA)

16. Which one set of alphabets when placed serially in blanks, will complete the following series :

a, b, b, –, –, a, b, –, b, –, b, b, a, –, a

(A) b, a, b, b, a

(B) b, b, b, a, b

(C) b, b, a, a, b

(D) b, b, a, b, b

17. In a certain code 'X + Y' means 'X is the brother of Y'; 'X – Y' means 'X is the sister of Y'; 'X × Y' means 'X is the father of Y'. Which of the following statements means 'C is the son of M' ?

(A) M – N × C + F

(B) F – C + N × M

(C) N + M – F × C

(D) M × N – C + F

18. TLRIA is related to WOULD in the same way as YBVLKA is related to

(A) MATTER

(B) BEYOND

(C) BEFORE

(D) NORMAL

19. John is facing West. He turns 45° in the clockwise direction, then 180° in the same direction and then 270° anti-clockwise. Which direction is he facing now ?

(A) West

(B) South

(C) South-West

(D) North-West

20. In a question paper, there are 12 questions in all, out of which only six are to be answered. Six questions have an alternative each. Each question has four parts. How many questions including parts are there in the question paper ?

(A) 72

(B) 96

(C) 48

(D) 24

21. In a particular rule, the number of letters skipped in between adjacent letters in the series is successive even numbers. Which of the following series observes this rule ?

(A) FINUZ
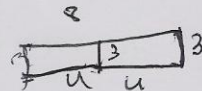
(B) ADGJM

(C) BEJQZ

(D) BDGHQ

22. Which one of the following does not belong to the group for the lack of common property ?

(A) $64 \div 8$
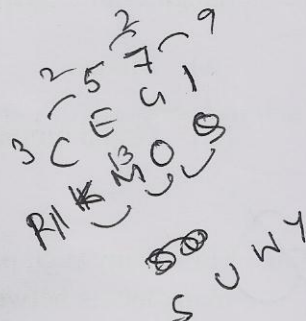
(B) $80 + 9$

(C) 7×49

(D) $36 - 6$

23. Facing the East direction, a man walks straight 4 km, turns left and walks 3 km and again turns left and walks 8 km. How far is he from the starting point ?

(A)   3 km

(B)   4 km

(C)   5 km

(D)   6 km

24. Select the related words from the given alternatives :

CEGI : KMOQ :: SUWY : ?

(A)   ACEG
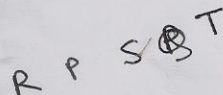
(B)   ZBDF

(C)   MOQS

(D)   UWYA

25. Five boys P, Q, R, S and T are standing in a row. P is between R and S. Q is between S and T. Which one of the following pairs represents the boys standing at both the ends ?

(A)   R, Q

(B)   T, R

(C)   T, P

(D)   P, R

26. Kamala's mother was three times older than Kamala 5 years ago. After 5 years, she will be twice as old as Kamala. What is the present age of Kamala ?

(A)   5 years

(B)   20 years

(C)   10 years

(D)   15 years

27. After a get-together every person present shakes hand of every other person. If there were 105 hand-shakes in all how many persons were present in the party ?

(A)   13

(B)   14

(C)   15

(D)   16

28. A is the father of X. B is the mother of Y. The sister of X and Z is Y. Which of the following statements is definitely not true ?

   (A) B is the wife of A   (B) B has only one daughter

   (C) X is the sister of Z   (D) Y is the son of A

29. In a family of six (1, 2, 3, 4, 5 and 6), there are two married couples. 4 is the grand mother of 1 and the mother of 2. 3 is the wife of 2 and the mother of 6. 6 is the grand daughter of 5. Who is 3 to 1 ?

   (A) Mother   (B) Sister

   (C) Grand mother   (D) Daughter

30. How many such pairs of letters are there in the word ADVERTISEMENT which have as many letters between them in the word as in the alphabet series.

   (A) 6   (B) 5

   (C) 4   (D) 3

31. Which of the following options completes the series : Z, A, U, F, P ?

   (A) J   (B) K

   (C) M   (D) N

32. If 35 × 604 = 43,056 and 27 × 698 = 82,976, then 32 × 864 = ?

   (A) 43,682   (B) 82,643

   (C) 43,628   (D) 82,634

33. If '+' means 'x'; '–', means '÷'; 'x' means '–'; and '÷' means '+', then what will be the value of 16 ÷ 64 – 4 × 4 + 3 = ?

   (A) 8   (B) 12

   (C) 20   (D) 52

(JECA)   (8)

34. Three of the following are alike in a certain way and form a group. Find the odd one out.

(A) Bird
(B) Kite
(C) Aeroplane
(D) Insect

35. Select the most appropriate choice on the basis of the following relationship :
'Examination is to Degree' as

(A) Doctor is to PhD
(B) Music is to Instrument
(C) Interview is to Selection
(D) Poverty is to Poor

36. If PALE is coded as 2134 and EARTH is coded as 41590, how is PEARL coded in that code ?

(A) 24153
(B) 23153
(C) 24135
(D) 24130

37. If A = 1; and CAR = 22, what will be OFFICER ?

(A) 26
(B) 64
(C) 60
(D) 62

38. Identify the rule followed in the following series of numbers :

20, 16, 18, 14

(A) −2, +4
(B) −4, +2
(C) −4, ÷2
(D) +4, ÷2

39. The director of a company reached the venue to conduct an interview at ten minutes to half-past eleven. He was early by half an hour. What was the scheduled time for the interview ?

(A) 11 : 50
(B) 11 : 40
(C) 11 : 20
(D) 11 : 10

40. Find the odd one in the following :

(A) TSQP
(B) STOP
(C) POTS
(D) TPOS