

**Important Instructions:-**

1. Immediately fill in the particulars on this page of the Test with Black/Blue Ball Point .
2. The test is of **1** hour duration.
3. The Test consists of **50** questions.
4. The maximum marks are **160**.
5. There are three parts in the question paper I, II, III consisting of Quick Answer Types ,Logical and Analytical Reasoning and Aptitude respectively
6. **PART I** carries question of **2** marks.
7. **PART II** carries question of **4** marks.
8. **PART III** carries question of **4** marks.
9. Quick Answer Type questions will be applicable for 10 minutes.

**10. Invigilators have to take Part I of paper from students after 10 minutes are over from the start**

11. Candidates will be awarded marks as stated above in instruction No. 6, 7, and 8 for correct response of each question.
12. No deduction from the total score will be made if no response is indicated for an item in the answer sheet.
13. There is only one correct response for each question. Filling up more than one response in any question will be treated as wrong response
14. For writing particulars/markings responses on Side-1 and Side-2 of the Answer Sheet use only Black Ball Point Pen provided in the examination hall.
15. No candidate is allowed to carry any textual material, printed or written, bits of papers, pager, mobile phone, any electronic device, etc. except the Admit Card inside the examination room/ hall.
16. Rough work is to be done on the space provided for this purpose in the Test Booklet only. This space is given at the bottom of each page.
17. On completion of the test, the candidate must hand over the Answer Sheet to the Invigilator on duty in the Room/Hall.
18. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the Answer Sheet.
19. Do not fold or make any stray mark on the Answer Sheet.
20. **25% negative marking for incorrect questions.**

Name of the Candidate (in Capital letters ) : \_\_\_\_\_

Roll Number : in figures \_\_\_\_\_

: in words \_\_\_\_\_

Name of Examination Centre (in Capital letters) : \_\_\_\_\_

Candidate's Signature

1. Invigilator's Signature : \_\_\_\_\_

2. Invigilator's Signature : \_\_\_\_\_

**PART I**  
**QUICK ANSWER TYPES**

1. When -1 is multiplied by itself 50 times the product is?  
(A)  $> 1$   
(B)  $> -1$   
(C) 0  
(D) NOTA
2.  $27 \times 17 - 27 \times 7$   
(A) 170  
(B) 250  
(C) 270  
(D) 220
3.  $18 \times 12 + 22 \times 12$   
(A) 410  
(B) 480  
(C) 420  
(D) 430
4.  $539 \times 999 + 539$ .  
(A) 53911  
(B) 53901  
(C) 53900  
(D) 53910
5.  $469 \times 19 + 469 \times 21 + 469 \times 60$ .  
(A) 46911  
(B) 46950  
(C) 46900  
(D) 46100
6.  $-640 + \underline{\quad} = -181$   
(A) 451  
(B) 457  
(C) 458  
(D) 459
7. Kerosene oil is an example of \_\_\_\_\_.  
(A) Conductors  
(B) Insulators  
(C) Electrolyte  
(D) None of these
8.  $7 \times (-3 + 5)/2$   
(A) 6  
(B) 7  
(C) 8  
(D) 9
9.  $21 + 48 / (14 - 2) + 5 \times (-3)$   
(A) 10  
(B) 11  
(C) 12  
(D) 13
10.  $35 - (-7) + 9 + (-20)$   
(A) 31  
(B) 32  
(C) 33  
(D) 34
11. The rounded end of one bone fits into the cavity (hollow space) of the other bone. Such a joint allows movements in all directions. Such a joint is called \_\_\_\_\_.  
(A) Ball and Socket joint  
(B) Privotal joint  
(C) Hinge joint  
(D) Fixed joint

12. The components of air which are harmful to living beings are

- (A) nitrogen and carbon dioxide.
- (B) dust and water vapour.
- (C) dust and smoke.
- (D) smoke and water vapour.

13. In an activity, a teacher dissolved a small amount of solid copper sulphate in a tumbler half filled with water. Which method would you use to get back solid copper sulphate from the solution?

- (A) Decantation
- (B) Evaporation
- (C) Sedimentation
- (D) Condensation

14. Which of the following statement is not true?

- (a) Materials are grouped for convenience.
- (b) Materials are grouped to study their properties.
- (c) Materials are grouped for fun.
- (d) Materials are grouped according to their uses.

15.  $2\frac{1}{6} - 1\frac{1}{4} + 2\frac{1}{3} - 1\frac{1}{12}$

- (A)  $2\frac{1}{6}$
- (B)  $2\frac{1}{5}$
- (C)  $3\frac{1}{6}$
- (D)  $3\frac{1}{3}$

16. Which parts of the mustard plant can be used as food?

- (A) seed and stem
- (B) seed and leaf
- (C) stem and root
- (D) root and seed

17.  $\frac{3}{4} \div \frac{6}{5}$

- (A)  $\frac{4}{7}$
- (B)  $\frac{5}{8}$
- (C)  $\frac{7}{8}$
- (D)  $\frac{4}{9}$

18.  $\left(\frac{1}{2} + \frac{1}{3}\right) \div \left(\frac{1}{2} - \frac{1}{3}\right)$

- (A) 3
- (B) 4
- (C) 5
- (D) 6

19.  $0.85 + 15.024$

- (A) 15.231
- (B) 15.874
- (C) 75.774
- (D) NOTA

20.  $\frac{348.72}{200}$

- (A) 1.7436
- (B) 1.7311
- (C) 1.7346
- (D) 1.7171

**PART II**  
**APTITUDE**

21. Anaemia : Blood :: anarchy : ?

- (A) Lawlessness
- (B) Government
- (C) Monarchy
- (D) Disorder

22. A motorist knows four different routes from London to Oxford and three different routes from Oxford to Gloucester. How many different routes does the motorist know from London to Gloucester via Oxford?

- (A) 9
- (B) 12
- (C) 10
- (D) 11

23. My sister Tanshu says that in two years she will be twice as old as she was four years ago. How old is my sister Tanshu now?

- (A) 9
- (B) 12
- (C) 10
- (D) 11

24. Avni visits three stores. At the first store she spends half of her money plus Rs. 20.00, at the second store she spends half the money she has left plus Rs 10.00 and at the third store she spends half of what she has left plus Rs 20.00. She is now out of money. How much money did Avni start out with?

- (A) 240
- (b) 270
- (c) 220
- (d) 250

25. How many minutes is it before 12 noon if 32 minutes ago it was three times as many minutes past 9 am?

- (A) 37
- (B) 33
- (C) 35
- (D) 34

26. Introducing Reena, Monika said, "She is the only daughter of my father's only daughter". How is Monika related to Reena?

- (A) Aunt
- (B) Mother
- (C) Cousin
- (D) None of these

27. MAD : JXA :: RUN : ?

- (A) ORK
- (B) OSQ
- (C) PRJ
- (D) UXQ

28. In doing a division of a question with zero remainder, a candidate took 12 as divisor instead of 21. The quotient obtained by him was 35. The correct quotient is?

- (A) 0
- (B) 12
- (C) 13
- (D) 20

29. The ages of a group of people are: 34, 27, 36, 18, 15, 72, 67, 12, 24, 45 What percentage of people in the group are above the average age for the group?

- (A) 45%
- (B) 40 %
- (C) 50%
- (D) 55%

30. 27, 54, ?, 108, 135, 162, 189, 216 What number is missing?

- (A) 87
- (B) 81
- (C) 91
- (D) 102

31. In a certain code FIRE is written as QHOE and MOVE as ZMWE, following the same rule of coding, what should be the code for the word OVER?

- (A) MWED
- (B) MWEO
- (C) MWOE
- (D) MWZO

32. ab\_bca\_a\_a\_c

- (A) abba
- (B) ccbb
- (C) bacb
- (D) abcc

33. Let  $F = 0.84181$ . When F is written as a fraction in lowest terms, the denominator exceeds the numerator by?

- (A) 13
- (B) 14
- (C) 29
- (D) 87

34.



- (A) 36
- (B) 48
- (C) 64
- (D) 75

35. If  $x \oplus y = x^2 + 2y$ , what is the value of P if  $4 \oplus (3 \oplus p) = 50$ ?

- (A) 4
- (B) 7
- (C) 8
- (D) 12.5

### PART III

#### LOGICAL AND ANALYTICAL REASONING

36. Identify the rule and find the missing number in place of the question mark?

32	56	70
45	87	84
115	180	?

- (A) 130
- (B) 195
- (C) 295
- (D) 150

37. Which word does NOT belong with the others?

- (A) Leopard
- (B) cougar
- (C) elephant
- (D) lion

38. Reptile is to lizard as flower is to

- (A) petal
- (B) stem
- (C) daisy
- (D) alligator

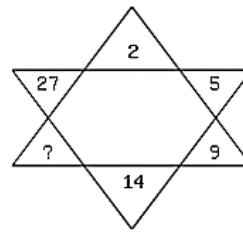
39. Erratic Behavior occurs when an individual acts in a manner that lacks consistency, regularity, and uniformity. Which situation below is the best example of Erratic Behavior?

- (A) Julia cannot contain her anger whenever the subject of local politics is discussed.
- (B) Martin has just been told that he is being laid off. Before leaving his supervisors office, he punches a hole in the door.
- (C) Rhonda has visited the dealership several times, but she still cannot decide which car to buy.
- (D) In the past month, Jeffrey, who has been a model employee for three years, has repeatedly called in sick, forgotten important meetings, and been verbally abusive to colleagues.

40. What is the 18<sup>th</sup> term of the series 1 2 2 3 3 3 4 4 4 4 5 5 5 5....

- (A) 2
- (B) 4
- (C) 5
- (D) 6

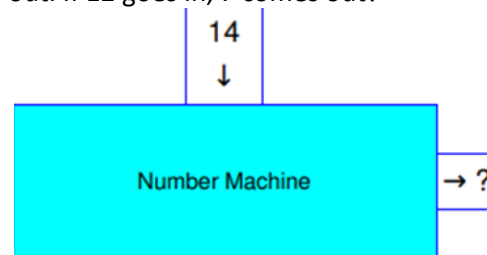
41.



Find the missing term?

- (A) 7
- (B) 14
- (C) 9
- (D) 20

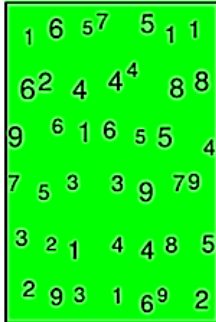
42. When a number is put into the machine below, a different number comes out. If 9 goes in, 4 comes out. If 11 goes in, 6 comes out. If 12 goes in, 7 comes out?



If 14 goes in, what number should come out?

- (A) 7
- (B) 8
- (C) 9
- (D) 10

43. Harsh mixed some single digit numbers in the box shown below. Write the fraction representing the total number of 9's among the given numbers?



- (A)  $\frac{5}{45}$   
 (B)  $\frac{44}{5}$   
 (C)  $\frac{43}{5}$   
 (D)  $\frac{42}{5}$

44. There are equal number of pens in each box. If there are 25 pens in 5 boxes, how many pens are there in all the 7 boxes?



- (A) 35  
 (B) 36  
 (C) 34  
 (D) 32

45. Few cadets are standing in a row. Madhav is at the 20<sup>th</sup> position from the front, and Ridhima is Standing at the 12<sup>th</sup> position from the back. If madhav and Ridhima interchange their positions, ridhima becomes 18<sup>th</sup> from the back. How many cadets are there in the row?

- (A) 36  
 (B) 37  
 (C) 34  
 (D) 38

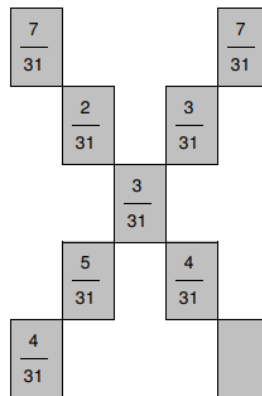
46. If  $A \spadesuit B$  means  $\frac{a+b}{2}$ , what is the value of  $2 \spadesuit (4 \spadesuit 8)$ ?

- (A) 4  
 (B) 6  
 (C) 7  
 (D) 5

47. If,  $\triangle \triangle \triangle = 3$   
 $\circ \circ \triangle \triangle \triangle \triangle = 12$   
 $\square \square \square = 9$   
 $\heartsuit \heartsuit \heartsuit \square \square \square = 21$   
 Find the vale of  $\triangle \triangle \triangle \triangle \triangle \circ \square \heartsuit \heartsuit \heartsuit$ .

- (A) 23  
 (B) 20  
 (C) 22  
 (D) 24

- 48.



If sum of both diagonals are same, find the missing value.

- (A)  $\frac{6}{31}$   
 (B)  $\frac{6}{32}$   
 (C)  $\frac{5}{33}$   
 (D)  $\frac{4}{34}$

49. Find the number of corners in the given shape?



- (A) 7
- (B) 9
- (C) 11
- (D) 10

50. Ram and bala are ranked 7<sup>th</sup> and 8<sup>th</sup> respectively from the top in a class of 47 students. What are their respective ranks from the bottom?

- (A) 42<sup>nd</sup> and 40<sup>th</sup>
- (B) 40<sup>th</sup> and 41<sup>st</sup>
- (C) 41<sup>st</sup> and 40<sup>th</sup>
- (D) 40<sup>th</sup> and 43<sup>th</sup>