

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. $4 \times 65 \times 25$
(A) 65000
(B) 650
(C) 6500
(D) 6400
2. $(36/9) / (-3) = ?$
(A) $\frac{-2}{3}$
(B) -1
(C) $\frac{-4}{3}$
(D) $\frac{-5}{3}$
3. Methyl orange is?
(A) Pink in acidic medium, yellow in basic medium
(B) Yellow in acidic medium, pink in basic medium
(C) Colourless in acidic medium, pink in basic medium
(D) Pink in acidic medium, colourless in basic medium.
4. Hot bodies can?
(A) Emit heat
(B) Absorb heat
(C) Both a and b
(D) None of these
5. Process in which water vapours are released in air by leaves of plants is called?
(A) Respiration
(B) Precipitation
(C) Evaporation
(D) Transpiration
6. Low atmospheric pressure exists on the earth in which of the following latitudes?
(A) At the equator only
(B) At 30° N and S
(C) At the poles
(D) At the equator and at 60° N and S
7. During 24 hours there is a time when plants neither give O₂ nor CO₂. This is the time of
(A) Night
(B) Daylight
(C) Twilight
(D) None of these
8. Which types of soil is best for growing wheat and gram?
(A) Black soil
(B) Red soil
(C) Loamy soil
(D) Sea bed
9. $(-5)^{110} / (-5)^{108}$
(A) 5
(B) -5
(C) 25
(D) -25
10. $(2^{20}/2^{15}) \times 2^3$
(A) 2⁶
(B) 2⁷
(C) 2⁸
(D) 2⁹

11. $(3^5 \times 10^5 \times 25) / (5^7 \times 6^5)$
(A) 5
(B) 10
(C) 1
(D) 2
12. Find two number whose sum and difference are 25 & 5?
(A) 15,10
(B) 25,20
(C) 7,8
(D) None of these
13. Think of a number take away 7 from $5/2$ of the number and you get 23 what is the number?
(A) 11
(B) 12
(C) 13
(D) 14
14. If current is flowing from A to B, then
(A) Protons are flowing from B to A
(B) Protons are flowing from A to B
(C) Electrons are flowing from B to A
(D) Electrons are flowing from A to B
15. Spring and tubewells are examples of
(A) Underground water
(B) Surface water
(C) potable water
(D) All of these
16. $27 \times 17 - 27 \times 7$
(A) 170
(B) 250
(C) 270
(D) 220
17. Tap 1 can fill bucket in 6 hours.
Tap 2 can fill it in 7 hours.
Tap 3 can fill it in 8 hours.
Together they can fill the bucket in?
(A) $\frac{168}{73}$ hours
(B) $\frac{167}{73}$ hours
(C) $\frac{125}{31}$ hours
(D) None of these
18. Find the ratio of consonants to vowels in "math is fun"
(A) $\frac{3}{5}$
(B) $\frac{1}{2}$
(C) $\frac{2}{3}$
(D) $\frac{1}{4}$
19. $x : y = 5 : 3$, then $(x^2 + y^2) : (x^2 - y^2)$
(A) 4 : 1
(B) 16 : 1
(C) 17 : 8
(D) 17 : 1
20. $5 : 3 :: x : 7.5$
(A) 10
(B) 11
(C) 12.5
(D) 15

PART II
Aptitude

21. The average of three numbers is 29. The average of two of these numbers is 41. What is the third number?

- (A) 5
- (b) 4
- (c) 6
- (d) 8

22. In each of the following questions, find out how many such pairs of letters are there in the given word each of which has as many letters between them in the word as in the English alphabet?

HACKLE

- (A) One
- (B) Two
- (C) Three
- (D) Four

23. Botany : plants :: Entomology : ?

- (A) Snakes
- (B) Insects
- (C) Birds
- (D) Germs

24. acE : bdF :: fhJ : ?

- (A) giK
- (B) ghK
- (C) dfH
- (D) fhL

25. Cartons of yoghurt cost 4 paise (Rs 0.04) more if bought individually than if bought in packs of 6. If a pack of 6 costs Rs 2.76, what is the cost of 5 cartons?

- (A) 2.50
- (B) 2.30
- (C) 2.60
- (D) 2.75

21. ca_cab_ab__bc_

- (A) bccaa
- (B) accab
- (C) bacaa
- (D) abaca

27. Each equation below has three items having certain relationship among them. The same relationship is expressed by sets of circles, each circle representing one item irrespective of its size. Match the items with right set of circles.

Vegetable, Apple, Spinach



28. The total number of digits used in numbering the pages of a book having 366 pages is:

- (A) 732
- (B) 990
- (C) 1098
- (D) 1305

29. One test tube contains some acid and another test tube contains an equal quantity of water. To Prepare a solution, 20 grams of the acid is poured into the second test tube. Then, two-thirds of the so-formed solution is poured from the second tube into the first. If the fluid in first test tube is four times that in the second, what quantity of water was taken initially?

- (A) 40 grams
- (B) 60 grams
- (C) 80 grams
- (D) 100 grams

30. If MINERAL is written as QRSTUVW and SOUND is written as ABCSD, then how will READER be written in the same code

- (A) SBFEFS
- (B) UTVDTU
- (C) TUDVUT
- (D) QDZCDQ

31. A and B started a business with initial investments in the ratio 14:15 and their annual profits were in the ratio 7:6 if A invested the money for 10 months, for how many months did B invest his money?

- (A) 6
- (B) 7
- (C) 8
- (D) 9

32. __ abb_bba_bab_a_

- (A) abaaba
- (B) aabbaa
- (C) bbabbb
- (D) bbaabb

33.



- (A) 13
- (B) 15
- (C) 17
- (D) 19

34. If x men, working x hours per day, can do x units of work in x days, then y men, working y hours per day would be able to complete how many units of work in y days?

(A) $\frac{x^2}{y^3}$

(B) $\frac{x^3}{y^2}$

(C) $\frac{x^2}{y^3}$

(D) $\frac{x^3}{y^2}$

35. A man can reach a certain place in 30 hours. If he reduces his speed by $\frac{1}{15}th$, he goes 10 km less in that time. Find his speed.

(A) 4 km/hr

(B) 5 km/hr

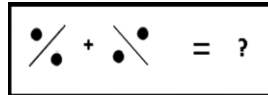
(C) $5\frac{1}{2} km/hr$

(D) 6 km/hr

PART III
LOGICAL AND ANALYTICAL REASONING

36. Which number is 63 less than 8 times itself?
 (A) 9
 (B) 12
 (C) 10
 (D) 11
37. Today is Monday. After 61 days, it will be:
 (A) Tuesday
 (B) monday
 (C) sunday
 (D) Saturday
38. If $3 \times 6 = 18$, $5 \times 3 = 16$, $8 \times 2 = 20$. Find the value of $4 \times 6 = ?$
 (A) 12
 (B) 13
 (C) 33
 (D) 20
39. Pointing to a man, a woman said, "His mother is the only daughter of my mother". How is the woman related to the man?
 (A) Mother
 (B) Daughter
 (C) Sister
 (D) Grand Mother
40. Forest is to tree as tree is to?
 (A) Plant
 (B) Leaf
 (C) Branch
 (D) mangrove

41.



- (A)
- (B)
- (C)
- (D)

42. A group of 1200 persons consisting of captains and soldiers is travelling in a train. For every 15 soldiers there is one captain. The number of captains in the group is?

- (A) 70
 (B) 75
 (C) 80
 (D) 85

43. Haiku is very odd man. He likes balloon, but doesn't like parties! He likes books, but doesn't like reading! He likes weeds, but doesn't like flowers! He like swimming, but doesn't like water! Does he like towns or villages?

- (A) Towns
 (B) Villages
 (C) Both
 (D) Can't be determined

44. Which word is the odd one out:
(A) Football
(B) Polo
(C) Badminton
(D) Baseball
45. Look at this series: 36,34,30,28,24? What number should come next?
(A) 20
(B) 22
(C) 23
(D) 26
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. A and B invest in a business in the ratio 3 : 2. If 5% of the total profit goes to charity and A's share is Rs. 855, the total profit is:
(A) 500
(B) 1000
(C) 1500
(D) 20
48. A batsman makes a score of 87 runs in the 17th inning and thus increases his average by 3. Find his average after 17th inning?
(A) 36
(B) 35
(C) 37
(D) 38
49. Insert the missing number?
7,26,63,124,215,342, (...)
(A) 391
(B) 421
(C) 481
(D) 511
50. If the price of a book is first decreased by 25% and then increased by 20%, then the net change in the price will be:
(A) 10
(B) 20
(C) 30
(D) 40