

| PAPER – I      |           |                |
|----------------|-----------|----------------|
| TIME: 2 ½ HRS. | PARTS A&B | MAX. MARKS: 50 |
| TIME: 2 HRS.   | PART- A   | MARKS: 35      |

### SECTION – I

5 × 2 = 10

Note: 1. Answer any FIVE questions, choosing atleast TWO from each of the following groups A & B.

2. Each question carries 2 Marks.

### GROUP – A

(Statements and Sets, Functions, Polynomials)

1. Show that the statement  $P(A) \rightarrow q \Rightarrow p$  is a tautology.

2. Show that  $A \cap B' = A - B$ .

3. If  $f(x) = \frac{1-x}{x+1}$  ( $x \neq 1$ ) then find the value of  $f(x) + f\left(\frac{1}{x}\right)$ .

4. Find the value of  $k$ , if the polynomial  $x^3 - 3x^2 + 4x + k$  is exactly divisible by  $x - 2$ .

### GROUP – B

(Linear Programming, Real Numbers, Progressions)

5. The vertices of convex polygon OABC are O (0, 0), A (3, 0), B (2, 3), C (0, 5). Find the maximum value of the objective function  $f = 2x + 3y$ .

6. If  $a^2 = b$ ,  $b^2 = c$ ,  $c^2 = a$ . Show that  $abc = 1$ .

7. Evaluate  $\lim_{x \rightarrow 0} \frac{x^2 - 2x + 1}{x^2 - 2x + 1}$ .

8. Determine the 25<sup>th</sup> term of an A.P. whose 5<sup>th</sup> term is -6 and the common difference is  $\frac{5}{4}$ .

### SECTION – II

4 × 1 = 4

Note: 1. Answer any FOUR of the following SIX questions.

2. Each question carries 1 Mark.

3. Write the implication of the statements

(i) 2 is a prime number, (ii) 2 is an even number.

10. If  $f = \{1, 3, 4, 5, 6, 7\}$

$g = \{3, 7, 5, 6, 7, 10\}$  Find  $g \cap f$ .

11. Write the nature of the roots of the quadratic equation  $x^2 - 4x + 5 = 0$ .

12. Define 'iso-profit line'.

13. Simplify  $(x^m)^n$ ,  $(x^m)^{n^2}$ ,  $(x^m)^{n^3}$ .

14. Find the middle term in the expansion of  $\left(3x - \frac{1}{2x}\right)^{10}$ .

### SECTION – III

4 × 4 = 16

Note: 1. Answer any FOUR questions, choosing atleast TWO from each of the following groups i.e., Group A & B.

2. Each question carries 4 Marks.

### GROUP – A

(Statements and Sets, Functions, Polynomials)

15. Prove that  $A - (B \cap C) = (A - B) \cup (A - C)$  for any three sets A, B and C.

16. If  $f(x) = x+2$ ,  $g(x) = 2x+3$ ,  $h(x) = 3x+4$ ,  $f \circ g \circ h$

Find (i)  $f \circ g \circ h$  (ii)  $h \circ g \circ f$

17. Let the function  $f: R \rightarrow R$  be defined by  $f(x) = 3x-5$  find a formula that defines the inverse function  $f^{-1}$ .

18. The expression  $(ax^2 + bx + c)$  equals -2 when  $x = 0$ , leaves a remainder 3 when divided by  $(x-1)$  and the remainder -3 when divided by  $(x+1)$  then find the value of a, b and c.

### GROUP – B

(Linear Programming, Real number, Progressions)

19. A sweet shop makes gift packets of sweets combining two special types of sweets A and B which weigh 7 Kg. Atleast 30kg of A and no more than 5 Kg of B should be used. The shop makes a profit of Rs.15 on A and Rs.20 on B per Kg. Determine the product mix so as to obtain maximum profit. (Write only objective function and the system of inequation without graph).

20. If  $a^2 = b^2 = c^2$  and  $\frac{a}{b} = \frac{c}{b}$  then show that  $\frac{a}{c} = 2 \cdot \frac{a}{b} = 2$ .

21. Find the sum to  $n$  terms of the series  $7 + 77 + 777 + \dots$

22. If  $(0,1)$ ,  $(0,2)$ ,  $(3,5)$  are in H.P. then show that

$$\frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} \text{ are also in H.P.}$$

### SECTION – IV

(Linear programming, Quadratic equations and Inequations)

Note: 1. Answer any ONE question from the following

2. The question carries 5 Marks. 1 × 5 = 5

23. Maximize  $f = 3x + y$  subject to the constraints

$$5x + 3y \leq 40, -4x + 3y \geq 32, x \geq 0, y \geq 0$$

24. Draw the graph of  $y = x^2 - 5x + 6$  to find the roots of  $x^2 - 5x + 6 = 0$ .

| TIME: 30 MINUTES. | PART- B | MARKS: 15 |
|-------------------|---------|-----------|
|-------------------|---------|-----------|

Note: 1. Each question carries ½ Mark.

2. Answers are to be written in the question paper only.

3. All questions are to be answered.

4. Marks will not be given for over-written, re-written or erased answers.

### 1. MULTIPLE CHOICE QUESTIONS.

10 × ½ = 5

1. The existential quantifier is denoted by the symbol

(A)  $\in$  (B)  $\subset$  (C)  $\exists$  (D)  $\forall$  [ ]

2. If  $n(A \cup B) = n(A) + n(B)$  then A and B are \_\_\_\_\_ sets.

(A) Equal (B) Equivalent (C) Finite (D) Disjoint [ ]

3. If  $f = \{(x, 2) | x \in R\}$  then  $f$  is a

(A) One-one function (B) Constant function [ ]

(C) Onto function (D) identity function [ ]

4. If  $f(x) = a_0 x^2 + a_1 x^{n-1} + a_2 x^{n-2} + \dots + a_n$  and  $a_0 = a_1 = a_2 = \dots = a_n = 0$  then the factor of  $f(x)$  is

(A)  $(x+1)$  (B)  $(x-1)$  [ ]

(C)  $(x+1)$  and  $(x-1)$  (D) None [ ]

5. If  $x^2 - 4x + 3 < 0$  then the value of  $x$  lies in between.

(A) 1 and 2 (B) 1 and 3 [ ]

(C) 1 and 4 (D) 4 and 3 [ ]

6. The solution set of a linear programming is

(A) Feasible solution (B) Feasible region [ ]

(C) Iso-profit line (D) Objective function [ ]

7.  $\frac{2}{1000} =$

(A) 0.2 (B) 0.02 (C) 0.002 (D) 2 [ ]

8.  $\frac{a}{x-y} = \frac{2a+3}{3x+5}$

(A)  $\frac{2}{3}$  (B)  $\frac{2}{5}$  (C)  $\frac{3}{5}$  (D)  $\frac{3}{3}$  [ ]

9. The 7<sup>th</sup> term of the progression 8, 16, 32, 64, ... is

(A)  $2^{-1}$  (B)  $2^{-2}$  (C)  $2^{-3}$  (D)  $2^{-4}$  [ ]

10. If a, b, c are in G.P. then

(A)  $a^2 = bc$  (B)  $b^2 = ac$  (C)  $c^2 = ab$  (D)  $abc = 1$  [ ]

### II. FILL IN THE BLANKS WITH SUITABLE ANSWERS.

10 × ½ = 5

11. The counter example for 'All prime numbers are odd' is \_\_\_\_\_.

12. If  $n(A \cap B) = 2$ ,  $n(A) = 4$  and  $n(B) = 3$  then  $n(A \cup B) =$  \_\_\_\_\_.

13. If the range of a function is equal to its co-domain then  $f$  is a \_\_\_\_\_.

14. The zero of the function  $f(x) = 2x - 3$  is \_\_\_\_\_.

15. The quadratic equation whose roots are  $(2+\sqrt{3})$  and  $(2-\sqrt{3})$  is \_\_\_\_\_.

16. The solution set of  $x \geq y$ ,  $x \leq y$  is \_\_\_\_\_.

17.  $\frac{a+b+2\sqrt{ab}}{\sqrt{a}+\sqrt{b}} =$  \_\_\_\_\_.

18.  $2^m = 4^{n+1}$  then the value of  $x$  is \_\_\_\_\_.

19. If a, b, c are in A.P. then  $\frac{1}{a}$ ,  $\frac{1}{b}$ ,  $\frac{1}{c}$  are in \_\_\_\_\_.

20. In an A.P. if 5 times the 5<sup>th</sup> term is equal to 7 times the 7<sup>th</sup> term then \_\_\_\_\_ term is zero.

III. For the following questions under GROUP – A, Choose the correct answer from GROUP – B and write the letter of the correct answer in the brackets provided against each question

10 × ½ = 5

(i) GROUP – A

GROUP – B

21.  $A \cup A = A$

(A)  $A \cap A = A$

22.  $A \cap (B \cap C) = (A \cap B) \cap C$

(B) De Morgan's Law

23.  $A \cap A = A$

(C)  $A \cap A = A$

$$f(x) = f(y) \Rightarrow x = y$$

(D) Idempotent Law.

24.  $n(A) = 3$ ,  $n(B) = 5$ ,  $n(A \cap B) = 1$

(E) 15

25. Number of terms in the expansion of  $\left(2x^2 - \frac{4}{x^2}\right)^{15}$

(F) Constant function

(G) 15

(H) One-one function

(ii) GROUP – A

GROUP – B

26.  $x > 0$ ,  $y < 0$  then

(i) -9

$(x, y)$  lies in the quadrant

(ii)  $x$

27.  $x = -8$  then  $|x-1| =$

(iii)  $\frac{n(n+1)}{2}$

28.  $x^{1/2}$ ,  $x^{1/3}$ ,  $x^{1/6}$

(iv)  $O_1$

29.  $2 \cdot n^2$

(v)  $\frac{n^2(n+1)^2}{4}$

30. The 9<sup>th</sup> term of the progression -1, -2, -3, ... is

(vi)  $O_1$

(vii) 9

(viii) 0 (Zero).

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