S.S.C. MATHEMATICS MODEL PAPER, MARCH

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 $P \wedge (\sim q) \Rightarrow p$ is a tautology.

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

3. If $f(x) = \frac{1+x}{1-x}$ $(x \neq 1)$ 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 $a^x = b$, $b^y = c$, $c^z = a$. Show that $xyz = 1$.

7. Evaluate $\sum_{n=4}^{8} \frac{n^2 - n^2}{n^2 - n^2}$

8. Determine the 25th term of an A.P. whose 9th 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**.

9. Write the implication of the statements.
   i) 2 is a prime number.   ii) 2 is an even number.

10. If $f = \{(1, 3), (2, 5), (3, 7)\}$
    $g = \{(3, 7), (5, 9), (7, 10)\}$ Find gof.

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

12. Define "iso-Profit line".

13. Simplify $(x^{a-b})^c \cdot (x^{b-c})^a \cdot (x^{c-a})^b$

14. Find the middle term in the expansion of $\left(3x - \frac{1}{2x}\right)^8$

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

16. If $f(x) = x + 2$, $g(x) = 2x + 3$, $h(x) = 3x + 4$ $\forall x \in R$
    Find   i) fo(goh)   ii) (fog)oh

17. Let the function $f : R \to R$ 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 3Kg 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 $a^x = b^y = c^z$ and $\frac{b}{a} = \frac{c}{b}$ then show that $\frac{1}{x} = 2 \cdot \frac{1}{z} = z$

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

22. If (b+c), (c+a), (a+b) are in H.P. then show that $\frac{1}{a^2}, \frac{1}{b^2}, \frac{1}{c^2}$ 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. Maximise $f = 3x + y$ subject to the constraints
    $8x + 5y \leq 40$ $-4x + 3y \geq 12$ $x \geq 0, y \geq 0$

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.

I. 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∪B) = n (A) + n (B) then A and B are _____ sets.
   (A) Equal   (B) Equivalent   (C) Finite   (D) Disjoint   [   ]

3. If $f = \{(x, 3) / x < 8\}$ then 'f' is a
   (A) One-one function   (B) Constant function
   (C) Onto function   (D) Identity function   [   ]

4. If $f(x) = a_0 x^n + a_1 x^{n-1} + a_2 x^{n-2} + \ldots + a_n$ and $a_0 + a_1 + a_2 + \ldots + a_n = 0$ 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 problem is
   (A) Feasible solution   (B) Feasible region
   (C) Iso-profit line   (D) Objective function   [   ]

7. $\sqrt[3]{0.000008}$ =
   (A) 0.2   (B) 0.02   (C) 0.002   (D) 2   [   ]

8. $\frac{x}{x - \ldots} - \frac{2x - 3}{3x + 5} = $
   (A) $\frac{2}{3}$ (B) $\frac{2}{5}$ (C) $\frac{3}{5}$ (D) $\frac{3}{2}$ [   ]

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9. The nth term of the progression 8, 16, 32, 54.... is
   (A) 2^{n-1} (B) 2^{n} (C) 2^{n+2} (D) 2^{n+1} [   ]

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∩B) = 2, n(A) = 4 and n(B) = 3 then n(A∪B) = _____.

13. If the range of a function is equal to its co-domain then it 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. $2^n \cdot 4^{n+1}$ 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 5th term is equal to 7 times the 7th 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∪A = A	(A) $\sim p \Leftrightarrow q$
22. $\sim (p \to q)$	(B) Demorgan's Law
23. If A→B	(C) $p \wedge \sim q$
$f(x_1) = f(x_2) \Rightarrow x_1 = x_2$	(D) Idempotent Law.
24. n(A) = 3, n(B) = 5 n(A×B) =	(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 (x, y) lies in the quadrant	(I) –9
27. $x = -8$ then $|x - 1|$ =	(J) x
28. $x^{1/2} \cdot x^{1/3} \cdot x^{-1/6}$	(K) $\frac{n(n+1)}{2}$
29. $\sum n^3$	(L) Q_2
30. The 9th term of the progression –1, –2, –3.... is	(M) $\frac{n^2(n+1)^2}{4}$
	(N) Q_4
	(O) 9
	(P) 0 (Zero).

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