

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 $\lim_{x \rightarrow 0} \frac{1}{x} \left(\frac{x^2 + 2x}{2x^2 + 3x} \right)$.

8. Determine the 25th term of an A.P. whose 5th 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 $f = \{ (1, 3), (2, 5), (3, 7) \}$

$g = \{ (3, 7), (5, 9), (7, 10) \}$ Find $g \circ f$.

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 $\frac{a}{b} = 2 = \frac{c}{b} = x$

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 $y = x^2 - 5x + 8$ to find the roots of $x^2 - 5x + 8 = 0$.

TIME: 30 MINUTES.	PART – B	MARKS: 15
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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. $\frac{1}{x-1} = \frac{2x+3}{3x+5}$

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

9. The 7th 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 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

21. $A \cup A = A$

22. $\neg(p \rightarrow q)$

23. $A \rightarrow B$

$$f(x) = f(x_0) \Rightarrow x_1 = x_0$$

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

25. Number of terms in the expansion of

$$\left(2x^2 - \frac{4}{x^2}\right)^{15}$$

(ii) GROUP – A

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

(x, y) lies in the quadrant

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

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

29. $2 \pi^2$

30. The 9th term of the progression -1, -2, -3, ... is

GROUP – B

(A) $\neg p \leftrightarrow q$

(B) De Morgan's Law

(C) $p \wedge \neg q$

(D) Idempotent Law.

(E) 18

(F) Constant function

(G) 16

(H) One-one function

GROUP – B

(i) -9

(ii) x

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

(C) O_1

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

(B) O_1

(C) 9

(F) 0 (Zero).

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Mark Steyvers



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Table of Contents Maths Question Paper Ssc 2013

1. Understanding the eBook Maths Question Paper Ssc 2013
 - The Rise of Digital Reading Maths Question Paper Ssc 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Question Paper Ssc 2013
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Question Paper Ssc 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Question Paper Ssc 2013
 - Personalized Recommendations

- Maths Question Paper Ssc 2013 User Reviews and Ratings
- Maths Question Paper Ssc 2013 and Bestseller Lists
- 5. Accessing Maths Question Paper Ssc 2013 Free and Paid eBooks
 - Maths Question Paper Ssc 2013 Public Domain eBooks
 - Maths Question Paper Ssc 2013 eBook Subscription Services
 - Maths Question Paper Ssc 2013 Budget-Friendly Options
- 6. Navigating Maths Question Paper Ssc 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Question Paper Ssc 2013 Compatibility with Devices
 - Maths Question Paper Ssc 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Question Paper Ssc 2013
 - Highlighting and Note-Taking Maths Question Paper Ssc 2013
 - Interactive Elements Maths Question Paper Ssc 2013
- 8. Staying Engaged with Maths Question Paper Ssc 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Question Paper Ssc 2013
- 9. Balancing eBooks and Physical Books Maths Question Paper Ssc 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Question Paper Ssc 2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Question Paper Ssc 2013
 - Setting Reading Goals Maths Question Paper Ssc 2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Question Paper Ssc 2013
 - Fact-Checking eBook Content of Maths Question Paper Ssc 2013

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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