

PAPER - I		
TIME: 2 1/2 HRS.	PARTS A&B	MAX. MARKS: 50
TIME: 2 HRS.	PART - A	MARKS: 35

**SECTION - I**

5 x 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  $P \rightarrow (q \rightarrow p)$  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  $k$ , of 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  $Z = 2x + 3y$ .

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

7. Evaluate  $\sum_{n=1}^{\infty} \frac{1}{n^2}$ ,  $\sum_{n=1}^{\infty} \frac{1}{n^3}$ ,  $\sum_{n=1}^{\infty} \frac{1}{n^4}$ .

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

**SECTION - II**

4 x 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  $f = \{1, 3, 4, 5, 6, 7\}$

$g = \{3, 7, 5, 6, 4, 7, 10\}$  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  $(x^m)^n$ ,  $(x^m)^{n^2}$ ,  $(x^m)^{n^2}$ .

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

**SECTION - III**

4 x 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  $f(x) = x+2$ ,  $g(x) = 2x+3$ ,  $h(x) = 3x+4$  find  $f \circ g \circ h$

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

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 20kg 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  $\frac{a}{c} = 2 - \frac{c}{a} = x$

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

22. If  $(a+b)$ ,  $(b+c)$ ,  $(c+a)$  are in H.P. then show that

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

**SECTION - IV**

(Linear programming, Quadratic equations and Inequalities)

Note: 1. Answer any ONE question from the following

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

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

$$5x + 9y \leq 40, \quad 4x + 3y \geq 52, \quad x \geq 0, y \geq 0$$

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 1/2 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 x 1/2 = 5

1. The existential quantifier is denoted by the symbol (A)  $\forall$  (B)  $\subset$  (C)  $\exists$  (D)  $\rightarrow$  [ ]

2. If  $n(A \cap B) = n(A) + n(B)$  then A and B are \_\_\_\_\_ sets. (A) Equal (B) Equivalent (C) Finite (D) Disjoint [ ]

3. If  $f = \{(x, 2) | x \in A\}$  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.  $\frac{a}{x-1} = \frac{2x+3}{3x+5}$  (A)  $\frac{2}{3}$  (B)  $\frac{2}{5}$  (C)  $\frac{3}{5}$  (D)  $\frac{3}{3}$  [ ]

9. The n<sup>th</sup> term of the progression 8, 16, 32, 64, ... 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)  $abc = 1$  [ ]

**5. FILL IN THE BLANKS WITH SUITABLE ANSWERS.**

10 x 1/2 = 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.

6. 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 x 1/2 = 5

- (i) GROUP - A GROUP - B  
 21.  $A \cup A = A$  (A)  $\cap$  (B)  $\cup$   
 22.  $\cap$  (C) De Morgan's Law  
 23.  $A - B$  (D)  $\cup$   
 $(x_1) = (x_2) \Rightarrow x_1 = x_2$  (E) Idempotent Law.  
 24.  $n(A) = 3$ ,  $n(B) = 5$ ,  $n(A \cap B) = 1$  (F) Constant function  
 25. Number of terms in the expansion of  $(2x^2 - \frac{4}{x^2})^{15}$  (G) 15  
 (H) One-one function

- (i) 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.  $2^{n^2}$  (v)  $\frac{n^2(n-1)^2}{4}$   
 30. The 9<sup>th</sup> term of the progression -1, -2, -3, ... is (vi) 9  
 (vii) 0 (Zero).

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**J Spring**



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## **Table of Contents 10th Class Maths Question Paper 2013**

1. Understanding the eBook 10th Class Maths Question Paper 2013
  - The Rise of Digital Reading 10th Class Maths Question Paper 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying 10th Class Maths Question Paper 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 10th Class Maths Question Paper 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from 10th Class Maths Question Paper 2013
  - Personalized Recommendations
  - 10th Class Maths Question Paper 2013 User Reviews and Ratings

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