

(i) Printed Pages : 2

Roll No.

(ii) Questions : 24

Sub. Code :

1	0	6	8	2
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Exam. Code :

5	0	0	2
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Bachelor of Arts (FYUP) 2nd Semester
(2055)

MATHEMATICS

Paper : Vedic Algebra

Time Allowed : 1½ Hours]

[Maximum Marks : 18

Note :— Attempt 18 questions by selecting at least nine questions from each Unit.

UNIT—I

1. Find H.C.F. of 108 and 162.
2. Find L.C.M. of 6 and 20.
3. Find L.C.M. of 6, 72 and 120.
4. Find H.C.F. of $2x^2 - x - 3$ and $2x^2 + x - 6$.
5. Find H.C.F. and L.C.M. of x^2 and $x + 2$.
6. Solve $\frac{3x + 4}{6x + 7} = \frac{5x + 6}{2x + 3}$.
7. Solve $\frac{4x - 3}{2x + 3} = \frac{x + 4}{3x - 2}$.

8. Evaluate 68×54 .
9. Find $45 \times 80 + 64 \times 95$.
10. Solve $322 + 422 - 277$.
11. Solve by Urdhva Tiryagbhyam
 $(3x + 2)(4x + 1) + (2x + 1)(x + 3) + (3x + 3)(2x + 2)$.
12. Solve $(3x + 4)(4x + 3) - (x + 1)(x + 2)$.

UNIT—II

1. Divide 497342 by 121.
2. Divide $12x^2 - 8x - 32$ by $x - 2$.
3. Divide $14x^2 + 13x - 15$ by $7x - 4$.
4. Factorise $x^2 - 9x + 19$.
5. Factorise $x^3 - 2x^2 - 23x + 60$.
6. Solve by Parvortya Yojayet $2x - y = -3$, $5x - y = 3$.
7. Solve $5x + 3y = 9$, $2x - 3y = 12$.
8. Solve $\frac{3x + 4}{6x + 7} = \frac{5x + 6}{2x + 3}$.
9. Solve $7x + 3y = -6$, $5x - 9y = 18$.
10. Solve $23x - 13y = 270$, $13x - 23y = 90$.
11. Solve $\frac{3}{x + 3} + \frac{4}{x + 4} = \frac{2}{x + 2} + \frac{5}{x + 5}$.
12. Factorise $x^3 - 7x + 6$.