15E

MATHEMATICS, Paper - I

[Real Numbers, Sets, Polynomials, Pair of Linear Equations in two variables, Quadratic Equations, Progressions, Co-ordinate Geometry]

(English version)

Time: 2 hours 45 minutes/

[Maximum Marks: 40

Instructions:

- Read the following Question paper and understand every question thoroughly without writing anything. 15 minutes time is allotted for this.
- Answer all the questions from the given four sections.
- Write answers to the Objective type questions (Section-IV) on Answer sheet, but at same place.
- In Section-III, every question has internal choice. Answer to anyone alternative.

SECTION - I

 $(Marks: 7 \times 1 = 7)$

- Answer all the following questions.
- 2. Each question carries 1 mark.
- 1. If $x \neq -1$, then find the quotient of $\frac{x^5 + x^4 + x^3 + x^2}{x^3 + x^2 + x + 1}$.
- 2. Insert 4 rational numbers between $\frac{3}{4}$ and 1 without using $\frac{a+b}{2}$ formula.
- 3. If $A = \{x : x \in N \text{ and } x < 20\}$ and

 $\mathbf{B} = \{x : x \in \mathbf{N} \text{ and } x \le 5\},\$

then write the set A - B in the Set-Builder form.

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David Baud

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