

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 :

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

SECTION - I

(Marks : 7×1=7)

1. 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 $A = \{x : x \in \mathbb{N} \text{ and } x < 20\}$ and $B = \{x : x \in \mathbb{N} \text{ and } x \leq 5\}$, then write the set $A - B$ in the Set-Builder form.

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Roman Wölfel



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