

Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

Group 'A'

5 × 3 × 2 = 30

1. a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
- b. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 2x - 3$, find f^{-1}
- c. Test the even or odd nature and symmetricity of the function $y = 8x^2$
2. a. Express $\tan^{-1}x$ in terms of inverse of sin function.
- b. Prove by mathematical induction: $1 + 3 + 5 + \dots + (2n - 1) = n^2$
- c. Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve: $3x + 2y + 9 = 0$, $2x - 3y + 6 = 0$
- b. Express $\sqrt{3} + i$ in polar form.
- c. If one root of the equation $ax^2 + bx + c = 0$ be twice the other, show that $2b^2 = 9ac$
4. a. Find the equation of the straight line that has y -intercept '2' and is parallel to $4x - 8y + 3 = 0$
- b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.
- c. Evaluate: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

Contd...

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Léo Pomar

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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For a decade beginning in 1660 an ambitious young London civil servant kept an astonishingly candid account of his life during one of the most defining periods in British history In Samuel Pepys Claire Tomalin offers us a fully realized and richly nuanced portrait of this man whose inadvertent masterpiece would establish him as the greatest diarist in the English language Against the backdrop of plague civil war and regicide with John Milton composing diplomatic correspondence for Oliver Cromwell Christopher Wren drawing up plans to rebuild London and Isaac Newton advancing the empirical study of the world around us Tomalin weaves a breathtaking account of a figure who has passed on to us much of what we know about seventeenth century London We witness Pepys s early life and education see him advising King Charles II before running to watch the great fire consume London learn about the great events of the day as well as the most intimate personal details that Pepys encrypted in the Diary follow him through his later years as a powerful naval administrator and come to appreciate how Pepys s singular literary enterprise would in many ways prefigure our modern selves With exquisite insight and compassion Samuel Pepys captures the uniquely fascinating figure whose legacy lives on more than three hundred years after his death **Technical Education Abstracts from British Sources** ,1961 **Library & Information Science Abstracts** ,1970 *Paper* ,1981

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