

MATHEMATICS

(Three hours)

(Candidates are allowed additional 15 minutes for only reading the paper.

They must NOT start writing during this time).

Section A - Answer Question 1 (compulsory) and five other questions.

Section B and Section C - Answer two questions from either Section B or Section C.

All working, including rough work, should be done on the same sheet as, and adjacent to, the rest of the answer.

The intended marks for questions or parts of questions are given in brackets [].

Mathematical tables and graph papers are provided.

Slide rule may be used.

Section—A (Compulsory)

[30]

QUESTION 1

- (i) Solve for x and y if $\begin{pmatrix} x^2 \\ y^2 \end{pmatrix} + 2\begin{pmatrix} 2x \\ 3y \end{pmatrix} = 3\begin{pmatrix} 7 \\ -3 \end{pmatrix}$
- (ii) Prove that $\sec^2(\tan^{-1} 2) + \operatorname{cosec}^2(\cot^{-1} 3) = 15$
- (iii) Find the equation of the hyperbola whose Transverse and Conjugate axes are the x and y axes respectively, given that the length of conjugate axis is 5 and distance between the foci is 13.
- (iv) Find the equations of the two regression lines, $4x + 3y + 7 = 0$ and $3x + 4y + 8 = 0$, find :
(a) Mean of x and y .
(b) Regression coefficients
(c) Coefficient of correlation.
- (v) Evaluate : $\int e^x (\tan x + \log \sec x) dx$
- (vi) Evaluate : $\lim_{x \rightarrow \frac{\pi}{2}} (\cos x \cdot \log \tan x)$
- (vii) Find the locus of the complex number, $Z = x + iy$
given $\left| \frac{x + iy - 2i}{x + iy + 2i} \right| = \sqrt{2}$
- (viii) Evaluate : $\int_1^e \frac{\sqrt{x}}{\sqrt{3-x} + \sqrt{x}} dx$
- (ix) Three persons **A**, **B** and **C** shoot to hit a target. If in trials, **A** hits the target 4 times in 5 shots, **B** hits 3 times in 4 shots and **C** hits 2 times in 3 trials. Find the probability that :

Mathematics Grade Exam Papers 2012

Sabine Zange



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