

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

Question 1

- (i) If $A = \begin{bmatrix} 3 & 1 \\ 7 & 5 \end{bmatrix}$, find the values of x and y such that $A^2 + x I_2 = yA$.
- (ii) Find the eccentricity and the coordinates of foci of the hyperbola $25x^2 - 9y^2 = 225$.
- (iii) Evaluate: $\tan \left[2 \tan^{-1} \frac{1}{2} - \cot^{-1} 3 \right]$
- (iv) Using L'Hospital's Rule, evaluate:
 $\lim_{x \rightarrow 0} (1 + \sin x)^{\cot x}$
- (v) Evaluate: $\int e^x \frac{(2 + \sin 2x)}{\cos^2 x} dx$
- (vi) Using properties of definite integrals, evaluate: $\int_0^{\frac{\pi}{2}} \frac{\sqrt{\sin x}}{\sqrt{\sin x} + \sqrt{\cos x}} dx$.
- (vii) For the given lines of regression, $3x - 2y = 5$ and $x - 4y = 7$, find:
- regression coefficients b_{yx} and b_{xy}
 - coefficient of correlation $r(x, y)$

This Paper consists of 5 printed pages and 1 blank page.

Maths Question Paper N2014 March April

SB Merriam



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