

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

[10 × 3]

(i) If $A = \begin{pmatrix} 3 & 1 \\ 7 & 5 \end{pmatrix}$, find x and y so that $A^2 + xI_2 = yA$.

(ii) Evaluate: $\tan[2\tan^{-1}(1/5) - \pi/4]$

(iii) Find the value(s) of k so that the line $3x - 4y + k = 0$ is tangent to the hyperbola $x^2 - 4y^2 = 5$.

(iv) Evaluate:

$$\lim_{x \rightarrow 1} \left(\frac{x}{x-1} - \frac{1}{\log x} \right)$$

(v) Evaluate: $\int \frac{xe^x}{(x+1)^2} dx$

(vi) Evaluate $\int_0^{\pi/2} \frac{2 \cos x - \sin 2x}{2(1 + \sin x)} dx$

Niit Question Papers 2017 2018 Studychacha

Lei Shi



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