

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

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Lingsheng Yao



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Reviewing **Niit Question Papers 2017 2018 Studychacha**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Niit Question Papers 2017 2018 Studychacha**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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