

17301

21819

3 Hours / 100 Marks

Seat No.

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- Instructions* –
- (1) All Questions are *Compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.
 - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.

Marks

- 1. Solve any TEN of the following:** **20**
- a) At what point on the curve $y = e^x$, the slope is 1?
 - b) Find the radius of curvature of the curve $y = x^3$ at (2, 8).
 - c) Evaluate $\int \frac{\cos(\log x)}{x} dx$
 - d) Evaluate $\int \operatorname{cosec}^2(e^x) \times e^x dx$
 - e) Evaluate $\int x \times a^x dx$
 - f) Evaluate $\int \frac{1}{(x+3)(x-2)} dx$
 - g) Evaluate $\int_1^2 \frac{dx}{4x-1}$
 - h) Find the area enclosed by $y = 3x^2$ and the lines $x = 1$, $x = 3$, and x -axis.

P.T.O.

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A Gutmann



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