

# 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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