21819

3 Hours / 100 Marks

Seat No.

- 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.

Minries.

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).
- e) Evaluate $\int \frac{\cos(\log x)}{x} dx$
- d) Evaluate $\int \csc^2(e^x) \times e^x dx$
- 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.

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