

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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web the plants used in constructed wetlands serve as a depository of phosphorus metals and other elements kadlec et al 1996 the plants commonly used in the treatment with constructed wetlands are bulrush reeds and cattail typha latifolia and the trees commonly used in the treatment with constructed wetlands are alders alnus glutinosa