

Subject: Mathematics-II
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Paper Code: BT-202
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1. a) Solve the following equation are exact and solve if $y e^x dx + (2y + e^x) dy = 0$

Solution: Given differential equation is

$$y e^x dx + (2y + e^x) dy = 0 \quad \dots (1)$$

Here, $M = y e^x$ and $N = 2y + e^x$

Now, $\frac{\partial M}{\partial y} = e^x$ and $\frac{\partial N}{\partial x} = e^x$

$$\Rightarrow \frac{\partial M}{\partial y} = \frac{\partial N}{\partial x}$$

Therefore equation (1) is exact differential equation.

The solution of exact differential equation is,

$$\int_{y \text{ is constant}} M dx + \int_{\text{independent of } x} N dy = c$$

$$\Rightarrow \int y e^x dx + \int 2y dy = c$$

$$\Rightarrow y e^x + y^2 = c$$

b) Solve: $\frac{dy}{dx} + 2 \frac{y}{x} = \sin x$ | 93294-43789

Solution: C

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Here $P = \frac{2}{x}$ and $Q = \sin x$

$$\therefore I.F. = e^{\int P dx} = e^{\int \left(\frac{2}{x}\right) dx} = e^{2 \log x} = x^2$$

The solution is,

$$y.I.F. = c + \int I.F. \times Q dx$$

$$\Rightarrow y(x^2) = c + \int (x^2) \times \sin x dx$$

$$\Rightarrow x^2 y = c + \left[x^2 (-\cos x) - 2x (-\sin x) + 2 (\cos x) \right]$$

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