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B. Tech. Examination 2021-22

(Even Semester)

**DIFFERENTIAL EQUATIONS AND FOURIER
ANALYSIS***Time : Three Hours]**[Maximum Marks : 60***Note :-** Attempt all questions.**SECTION - A**1. Attempt all parts of the following : $8 \times 1 = 8$

- (a) Find the order and degree of the differential equation :

$$\left(\frac{d^2y}{dx^2}\right)^2 - \left(\frac{dy}{dx}\right)^3 - 1 = 0$$

- (b) Find the particular integral of the differential equation :

$$(D^2 - 1)y = 1$$

[P. T. O.