S.No. : 539 BAS 2201

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PAPER ID : 29906 Roll No. | | | | | | | | | | |

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 × 1 = 8

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

$$\left(\frac{dy}{dx}\right)^{1/2} + y = x^{1/3}$$

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

$$\frac{dy^2}{dx^2} + a^2 y = \sin a x$$

[P. T. O.