

Jharkhand University of Technology, Ranchi**B.Tech. 2nd Semester Examination, 2024 (NEP)****Subject : Engineering Mathematics-2****Subject Code : BSM02****Time Allowed : 3 Hours****Full Marks : 70**

1. The particular integral of $(D^2 + 4)y = \sin 3x$ is

(a) $\frac{-\sin 3x}{5}$

(b) $\frac{-\sin 3x}{4}$

(c) $\frac{\cos 3x}{4}$

(d) $\frac{\cos 3x}{5}$