

Math-202 Semester-133 QUIZ III

NAME:

S.No.

ID:

Maximum Marks: 15

Section:06

Time Allowed: 30 minutes

(1) The function $y_1 = x^2$ is one solution of $x^2y'' - 3xy' + 4y = 0$. Find second solution of the differential equation.

(2) Solve the differential equation $y'' + 4y = \cos^2x$ by undetermined coefficient.

(3) Solve the differential equation $x^2y'' - xy' + y = 2x$ by variation of parameters.