

Math-202 Semester-172 QUIZ V

NAME:

S.No.

ID:

Maximum Marks:10

Section:18

Time Allowed: 35 minutes

(1) Find the series solution of the differential equation $y'' + xy = 0$ about the ordinary point $x = 0$.

(2) Determine the singular points of the differential equation

$$(x^2 - 4)^2 y'' + 3(x - 2)y' + 5y = 0$$

and classify them as regular or irregular.