Math-202   Semester-171   QUIZ VI

NAME:   S.No.  ID:  
Maximum Marks:10   Section:07   Time Allowed: 35 minutes

(1) Determine the singular points of the differential equation

\[(x^2 - 16)^2 y'' + (x + 4)y' + 2y = 0\]

and classify them as regular or irregular.

(2) Find the first three non-zero terms of the series solution of the differential equation

\[4xy'' + 2y' + y = 0\]

about \(x = 0\) corresponding to the largest indicial root.