

Math-202 Semester-112 QUIZ IV

NAME:

S.No.

ID:

Maximum Marks: 15

Section:07

Time Allowed: 30 minutes

- (1) What is the general solution of $(D^2 - 4)(D + 2)^2(8D^2 + 4D + 1)y = 0$. (5points)
- (2) If $D^3 + aD^2 + bD + c$ annihilates $(1 + e^{-x})^2$, then find the value of $a + b + c$. (4pts)
- (3) Solve by variation of parameters $4y'' + 36y = \csc 3x$. (6points)