Math-202Semester-133QUIZ II

NAME: S.No. ID:

Section:06 Maximum Marks: 15 Time Allowed: 25 minutes

- (1) Solve the DE: $x\frac{dy}{dx} = 2xe^x y + 6x^2$. (2) Find the integrating factor that makes the differential equation $y(\ln x - \ln y)dx - (x\ln x - x\ln y - y)dy = 0$
- (3) Convert the differential equation into linear differential equation $x^2 \frac{dy}{dx} + 2xy = 5y^3.$