

Math-202 Semester-112 QUIZ II

NAME:

S.No.

ID:

Maximum Marks: 10

Section:07

Time Allowed: 30 minutes

- (1) Solve  $(e^{2y}-y)\cos x dy = e^y \sin 2x dx$ ;  $y(0) = 0$ . (3points)
- (2) Find the solution of the differential equation  $\sin 2x \frac{dy}{dx} - y = \tan x$  (4points)
- (3) Solve the differential equation  $(y^2+xy^3)dx+(5y^2-xy+y^3)dy$  (3points)