IIITS Differential Equations Midterm I Set -4

Time:90 minutes Marks: 21 marks

Section I

I. Answer all questions. Each carry 3 marks

3*3=9 marks

1.classify and solve the following equation

2. Find the general solution and singular solution of the following equation

3. Find the constant 'e' such that the following given two equations are orthogonal to each other

Section II

I.Answer all questions each 4 marks (4*3= 12 marks)

4. solve the following equation

5. Find the general solution of the given differential equation

6. Reduce the following equation to the exact form and find its solution if y(1)=2