SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
RAMAPURAM CAMPUS
DEPARTMENT OF MATHEMATICS
18MAB201T-Transforms and Boundary Value Problems

Unit 1 – Partial Differential Equations

Assignment 1

Year/Sem : II/III

Branch: Common to All branches except B.Tech (Business Systems)

Total marks: 20Marks

PART B (2x4=8 marks)

1. Form the PDE by eliminating the arbitrary function f $from$ $f(lx + my + nz, x^2 + y^2 + z^2) = 0$

2. Solve $x(y - z)p + y(z - x)q = z(x - y)$

PART C (1x12=12marks)

3.Solve $(D^3 - 7DD'^2 - 6D'^3)z = e^{x+y} + sin(x - 2y) + x^2y$