

Seventh Semester 2017
Examination: B.S. 4 Years Programme

Roll No.

PAPER: Partial Differential Equations
Course Code: MATH-402

TIME ALLOWED: 2 hrs. & 30 mins. MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

NOTE: Attempt all questions from each section.

SECTION II-Questions with Short Answers

1. Find the PDE for u = ax + (1 - a)y + b.

(4 marks)

2. Find the integral surface for $\frac{dx}{dy-bx} = \frac{dy}{ax-cx} = \frac{dx}{bx-cy}$.

(4 marks)

3. Find the canonical form for $z_{xx} - 5z_{xy} + 6z_{yy} = 0$.

(4 marks)

Evaluate the complete integral surface of the PDE, x(y² + z)p - y(x² + z)q = (x² - y²)z containing x + y = 0, z = 1.
 (4 marks)

5. Define linear, non-linear and quasi linear PDE with atleast one example.

(4 marks)

SECTION III-Questions with Brief Answers

6. Solve $(D_x D_y + D_x - D_y - 1)u = xy$.

(6 marks)

7. Convert the Laplace equation 24 + 23 = 0, into polar form.

(6 marks)

8. Reduce into normal form and find an integral surface of $2u_{xx} - 2yu_{xy} - u_y = 0$ which contains $u(x, 1) = \frac{x^2}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \right$

9. Solve

(6 marks)

$$(y^2 + z^2 - x^2)p - 2xyq + 2xz = 0.$$

10. Interpret and solve the following equation:

(6 marks)

$$\begin{split} &\frac{1}{c^2}u_t=u_{xx}+u_{yy}, \quad u(0,y,t)=u(a,y,t)=0, \quad u(x,y,0)=f(x,y),\\ &u(x,0,t)=u(x,\delta,t)=0, \ t>0 \quad x\in(0,a), \quad y\in(0,\delta). \end{split}$$

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Mathematics 402past Papers

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