JC BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA, Faridabad
First Sessional Exam-2024

Prog. Name: B.tech(ME)
Course Code: BSC201
Course Name: (Mathematics-III)

Semester: III
Max. Marks: 15
Time: 90 min.

All Questions are Compulsory.

Q 1) Solve the equation $(x^2 - yz)p + (y^2 - zx)q = z^2 - xy$. (3)

Q 2) Solve the equation $2z + p^2 + qy + 2y^2 = 0$. (4)

Q 3) Solve the equation $\dfrac{\partial^2 z}{\partial x^2} + \dfrac{\partial^2 z}{\partial x \partial y} - 6\dfrac{\partial^2 z}{\partial y^2} = \cos(2x + y)$. (4)

Q 4) Compute the Bowley's coefficient of skewness for the following frequency distribution. (4)

Marks	0-10	10-20	20-30	30-40	40-50
No. of students	2	7	10	5	3