

Math Sem-5 Internal Question

Semester-V Internal Exam-2021 Page (01)

Math Core-11 (Multivariate Calculus)

Answer all question

- Q1. State and Explain Stoke's theorem?
- Q2. State sufficient condition of maxima minima of a function of two variables?
- Q3. Define a vector field?

Math core-12 (Group theory)

Answer all question:-

- Q1. Define automorphism of a group?
- Q2. Define External direct product
- Q3. State fundamental theorem on homomorphism?

DSE-I. Linear programming

Answer all question

- Q1. Write a general linear programming
- Q2. Define slack and surplus variables?
- Q3. Define line segment of two vectors in \mathbb{R}^4 .

DSE-II Boolean algebra

- Q1. Describe the general properties in boolean algebra?
- Q2. Give an example of boolean ring?
- Q3. Define complete boolean algebra?