



UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)
BBA 1st Semester Assignment

Programme Name-BBA-First Semester
Course Name-Business Mathematics
Maximum Marks-40

Programme Code-BBA-10
Course Code:BBA-102

Last Date of Submission: 15 Jan, 2012

Session: 2011-12 (Summer)

Section-A

Section 'A' contains 08 short answer type questions of 5 marks each. Learners are required to answers 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.

Discuss the following (1-8):

1. Importance of Venn Diagrams.
2. Harmonic Progression.
3. Circular Permutations.
4. Cramer's Rule.
5. Importance of Reduction Formulas.
6. Transpose of Matrix.
7. Difference between Permutation and Combination.
8. Integrate $x(x^2+1)^3$

Section-B

Section 'B' contains 04 long answer-type questions of 10 marks each. Learners are required to answers 02 questions only.

1. What do you mean by Matrices? Also, explain the various types of matrices. Find matrices A and B such that A and B are both non-zero matrices but the product AB is a zero matrix.
2. Define successive and parametric differentiation. How will you calculate the derivative of product of two functions? Explain various business applications of Differentiation.
3. Define sets and operations with sets with the help of examples. A market research group conducted a survey of 1000 consumers and reported that 720 consumers liked product A and 450 consumers liked product B. What is the least number that must have liked both the products?

4. What is an elementary matrix? When the system of equation is considered consistent and when is it inconsistent.

