



Karmaveer Bhaurao Patil University, Satara
(A State Public University Est. u/s 3(6) of MPUA 2016)
Faculty of Commerce and Management

Dhananjayrao Gadgil College of Commerce, Satara

Board of Studies in Statistics & Mathematics

Programme: B.Com I

Semester - I

Type : OE

Marks: 50

Credits : 2

From: A. Y. 2025-26

Name of the Course: Mathematics Paper –I

Course Objectives:

- 1) To apply elementary concept of Mathematics in Economics, Commerce, Business and Management.
- 2) To introduce Set theory to understand the types of set & their operation.

Course Outcomes:

- 1) Knowledge of recognize visual representation of set with Venn Diagram.
- 2) Knowledge of Ratio, proportion & percentage

Module	Title and Contents	Hrs
Module -1:	<p>Module -1: Set Theory</p> <p>1.1 Meaning of a set, Cardinality of a set. 1.2 Methods of describing of a set. : Tabular form, Set builder form 1.3 Types of a set : Finite set, Infinite set, Empty set, Subset, Universal set, Equal sets, Disjoint sets, Complementary set. 1.4 Venn Diagrams, Operation on Sets: Union of sets, Intersection of sets, Difference of sets. Cartesian product of two sets, Duality. 1.5 Simple Examples.</p>	15
Module -2:	<p>Module -2: Ratio, Proportion, Percentage, and Interest</p> <p>2.1 Introduction to Ratio and Proportion 2.2 Types of Proportion : Simple Proportion, Direct Proportion, Inverse Proportion, Continued Proportion 2.3 Concept of Percentage and Interest 2.4 Types of Interest : Simple Interest and Compound Interest 2.5 Simple Examples based on above</p>	15

Reference Books:-

1. Padmalochan Hazarika – A Textbook of Business Mathematics s chand publication 2016
2. Veena G.R.-Business Mathematics (New age international publishers, New Delhi) 2006
3. J. K Sharma – Business Mathematics Theory and Applications Ane books India 2007
4. J.P Singh – For BBA Business Mathematics Lakshi Publisher 2014
5. B. M Aggarwal - Business Mathematics and Statistic, Ane books Pvt. Ltd.
6. Kumbhojkar G.V-Business Mathematics (PhadakePrakashan, Kolhapur.)
7. J.P Singh –Business Mathematics For BBA

Note: Use of nonprogrammable calculator is allowed.

Evaluation Pattern:

Total Marks: 50

Internal Continuous Evaluation: 20 Marks

- Home Assignment/Tutorial - 10 marks
- Unit test/Seminar – 10 marks

End Semester Examination: 30 Marks

Each question for 10 Marks

- Question -1 MCQ 5 Out of 6 of 2 marks each
- Question -2 Long answer question with example
or
- Question -2 Long answer question with example
- Question -3 Long answer question with example
or
- Question -3 Long answer question with example