

SARDAR PATEL UNIVERSITY
Programme: BBA (International Business)
Semester: I
(Effect from June, 2018)

Paper Code: UM01DBBB22	Total Credits: 3
Title Of Paper: Business Mathematics	

Unit	Description in detail	Weightage (%)
1	Set Theory: Sets, Subsets, Equality of two sets, Null set, Universal set, Complement of a set, Union and Intersection of Set, Difference of two sets, Venn diagram, De Morgan's laws (without Proof), Associative laws (without Proof), Distributive laws (without proof), Cartesian product of two sets.	25 %
2	Co-ordinate Geometry: Distance between two points in R^2 , Division of a line segment, Area of a triangle, Condition for three points to be collinear, Slope of a line, Slope of parallel and perpendicular lines, General equation of a line, Standard equations of a line. (1) $\frac{y - y_1}{y_2 - y_1} = \frac{x - x_1}{x_2 - x_1}$ (2) $y = mx + c$ (3) $y - y_1 = m(x - x_1)$ (4) $\frac{x}{a} - \frac{y}{b} = 1$	25 %
3	Simple and compound interest Concept of Principal, Rate of interest, Term or Period and Amount in simple and compound interest. Calculation of compound interest when compounded Monthly, quarterly, half yearly and annually.	25 %
4	Practical Mathematical Problems Percentage, Meaning and calculation of percentages, Meaning and properties of ratio, Meaning of proportion, Difference between ratio and proportion, Continued proportion, Direct and indirect proportion, Ratio and proportion (simple examples).	25 %

Basic Text & Reference Books:

- Business Mathematics, Prin. G. C. Patel & Prof. A. G. Patel, Atul Prakashan.
- Business Mathematics, Dr. Amarnath Dikshit, Dr. J. K. Jain, Himalaya Publishing House.

