SARDAR PATEL UNIVERSITY
Programme: BBA(Foreign Trade)
Semester: I
Syllabus with effect from: JUNE 2011

Paper Code: UM01CBBF07	Total Credit: 3
Title Of Paper: Business Mathematics	

Unit	Description in detail	Weighting (%)
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) $\dfrac{y - y_1}{x - x_1} - \dfrac{y_1 - y_2}{x_1 - x_2}$ (2) $y = mx + c$ (3) $y - y_1 = m(x - x_1)$ (4) $\dfrac{x}{a} = \dfrac{y}{b} = 1$	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.