

**SARDAR PATEL UNIVERSITY**  
**Programme: BBA (GENERAL)**  
**Semester: I**  
**Syllabus with Effect from: June-2011**

<b>Paper Code: UM01CBBA07</b>	<b>Total Credit: 3</b>
<b>Title Of Paper: Business Mathematics - I</b>	

Unit	Description in detail	Weighting (%)
<b>I</b>	<b>Set Theory</b> Sets, Subsets, equality of two sets, null set, universal set, complement of a set, union and intersection of sets, difference of two sets, venn diagram, laws of algebra of sets, venn Morgan laws and Cartesian Product of two sets ( Theoretical Examples based on two or more sets are excluded). <b>Real Numbers</b> Real Numbers, absolute value and its properties (Without Proof)	25%
<b>II</b>	<b>Determinant and Matrix</b> Meaning, Determinants and their basic properties (Without Proof), Cramer's Method Matrices-Addition, Subtraction, scalar multiplication. Types of matrices-Square, null, identity, transpose of matrices, Symmetric, skewsymmetric, Singular, not singular, inverse, adjoint of a matrix. Only solution of a system of three linear equations using matrix theory.	25%
<b>III</b>	<b>Co-ordinate Geometry</b> Cartesian Co-Ordinate System, Distance between two points, Slope of line, slopes of Parallel and perpendicular lines, equations of a line Two Point Form Point slope form Intercept form Two intercept form General form	25%
<b>IV</b>	<b>Limit</b> Limits of a function, Limits of sum, Product and quotient of two functions (Without Proof) and use of them for evaluating other limits.	25%

**Basic Text & Reference Books**

- Business Mathematics K Kapoor, Sultan Chand & Sons, New Delhi
- Business Mathematics, Allen R G D Macmillan India
- Business Mathematics Allen R G D Pitamber Publication House
- Quantitative Techniques in Management, Vohra N D TATA McGraw Hill, New Delhi
- Mathematics for Management and Computer Application, Sharma J K Galgotia Pvt Ltd, New Delhi

