

**SARDAR PATEL UNIVERSITY**  
**Programme: BBA (International Business)**  
**Semester: I**  
**Syllabus with Effect from: JUNE 2014**

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|---|-------------------------|
| <b>Paper Code:</b> UM01CBBB06               | <b>Total Credits: 3</b> |
| <b>Title Of Paper:</b> Business Mathematics |                         |

| Unit     | Description in detail  | Weightage (%) |
|----------|--|---------------|
| <b>1</b> | <b>Set Theory:</b><br>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.  | <b>25 %</b>   |
| <b>2</b> | <b>Co-ordinate Geometry:</b><br>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.<br>(1) $\frac{y - y_1}{x - x_1} = \frac{y_2 - y_1}{x_2 - x_1}$ (2) $y = mx + c$<br>(3) $y - y_1 = m(x - x_1)$ (4) $\frac{x}{a} = \frac{y}{b} = 1$ | <b>25 %</b>   |
| <b>3</b> | <b>Simple and compound interest</b><br>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.   | <b>25 %</b>   |
| <b>4</b> | <b>Practical Mathematical Problems</b><br>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).   | <b>25 %</b>   |

**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.

