

SARDARPATELUNIVERSITY
Vallabh Vidyanagar
BBA-(ISM) PROGRAM
Semester-I
(Effective from June 2018)

Paper Code: UM01DBBS22	Total Credit: 3 Marks: 100
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 sets, difference of two sets, Venn diagram, laws of algebra of sets, De Morgan laws and Cartesian Product of two sets (theoretical examples based on two or more sets are excluded) Real Numbers Real numbers, absolute value and its Properties (without Proof)	25 %
2	Determinant and Matrix Meaning determinants and their basic properties (without proof), Cramer's Method, Matrices-Addition, Subtraction, Scalar multiplication Types of matrices-Square, null, Identity, transpose of a matrices, Symmetric, skew-symmetric, singular, non singular, inverse, adjoint of a Matrix Only solution of a system of three linear equations using matrix theory.	25 %
3	Co-ordinate Geometry Cartesian co-ordinate system, Distance Between two points, slope of line, slopes of parallel and perpendicular lines, Equation of a line (1) Two point form (2) Point slope form (3) Intercept form (4) Two intercept form (5) General form	25 %
4	Limit Limits of a function, Limits of sum, product and quotient of two function (without proof) and use of them for evaluating other limits	25 %

Evolution: Internal: 40 Marks (Theory)

External: 60 Marks (Theory) –Two –Hour Examination.

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