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| II – BBM | MATHEMATICS FOR COMPETITIVE EXAMS For the students admitted from the year 2014 | AMBM401 |
| SEMESTER - IV | | HRS/WK – 5 |
| ALLIED | | CREDIT – 4 |

(For BBM. II – Year)

UNIT I:SET THEORY

Basic concepts – Subsets – Operations and Applications – Cartesian Product – Relations – Properties – Functions.

UNIT – II:ANALYTICAL GEOMETRY

Distance – Slope – Equation of Straight line – Interpretation – Break even analysis – Parabolas.

UNIT – III:DIFFERENTIAL CALCULUS

Limits – Continuity – Average & Marginal concepts – Differential coefficient concepts – Simple applications to Economics.

UNIT – IV:MATRICES

Addition of matrices –Scalar multiplication-Multiplication of a matrix by a matrix-Inverse of a matrix –Solution of a system of equation –Input output Analysis

UNIT – V:COMMERCIAL ARITHMETIC

Percentages – Simple and Compound interests – Arithmetic and Geometric Series – Simultaneous Linear equations.

TEXT BOOK :

“An Introduction to Business Mathematics”, V. Sundaresan, S. D. Jaya Seelan, S. Chand & Company Ltd, New Delhi(2003).

Unit-I: Chap:2(Sec:2.1 – 2.7),

Unit-II: Chap:1(Sec:1.2-1.4,1.6-1.8),

Unit-III: Chap:3(Sec:3.1,3.2,3.4,3.5,3.11),

Unit-IV: Chap:8 (8.2-8.7),

Unit-V: Chap:7(7.1,7.2,7.3,7.5).

REFERENCE BOOKS:

1. “Business Mathematics”, Qazi Zameeruddin, V. K. Kahanna, S. K. Bhambri, Vikas Publishing Pvt Ltd, New Delhi (1995).
2. “Business Mathematics”, V. K. Kapoor, S. Chand & Company Ltd, New Delhi (1994).

QUESTION PATTERN

Time: 3Hrs
Max. Marks:75

Section - A
5x2=10
Answer ALL Questions

Section - B
3x5=15
Answer any THREE Questions (Out of five)

Section - C
5x10=50
Answer ALL Questions (Either or Type)