

BUSINESS MATHEMATICS & STATISTICS

SYLLABUS FOR HIGHER SECONDARY FIRST YEAR COURSE

One Paper

Time : Three hours

Marks : 100

Unitwise Distribution of Marks & Periods :

Unit	Topics	Marks	Periods
GROUP-A : BUSINESS MATHEMATICS (60 Marks)			
Unit-1	Metric System	15	25
Unit-2	Mensuration	15	25
Unit-3	Law of Indices	20	40
Unit-4	Co-ordinate Geometry	10	15
GROUP - B : STATISTICS (40 Marks)			
Unit-5	Meaning and Definition	06	10
Unit-6	Statistical Investigation	10	20
Unit-7	Classification and Tabulation of Data	15	30
Unit-8	Diagrams and Graphs	09	15
Total :		100	180

Unitwise Distribution of Course contents:

GROUP-A : BUSINESS MATHEMATICS (60 Marks)

Unit-1 : Metric System : **Marks : 15**

Metric System. Ratio and Proportion, Profit and Loss (Simple and with discount), Mixture

Unit-2 : Mensuration : **Marks : 15**

Mensuration of rectilinear Figures- Triangle, Quadrilateral Parallelogram, Rhombus, Square; Rectangle, Trapezium and Circle Mensuration of solid figures- Cuboid, Cube. Cylinder; Cone; Prism and Sphere

Unit-3 : Laws of Indices : **Marks : 20**

Laws of Indices. Logarithm, Quadratic equations, Real numbers, functions (with Associated Problems)

Unit-4 : Co-ordinate Geometry : **Marks : 10**

Idea of Cartesian Co-ordinate, Distance Formula, Section Formula and Area of Triangle

GROUP - B : STATISTICS (40 Marks)

Unit-5 : Meaning and Definition :

Marks : 06

Meaning and Definition, Meaning of data, Scope, Functions
Limitations of Statistics, Distrust of Statistics

Unit-6 : Statistical Investigation:

Marks : 10

Planning and execution stages, Collection of data (primary and Secondary), Schedules and Questionnaire, Drafting and requisites of a good questionnaire, Census versus Sample-their merits and demerits

Unit-7: Classification and Tabulation of Data :

Marks : 15

Meaning, Role, Objectives, Formation of Blank table and tabulation of numerical data

Unit-8 : Diagrams and Graphs :

Marks : 09

Bar diagrams, Pie chart, Histogram, Frequency polygon, Ogive
(two types : less than and more than type)

Prescribed Textbook : বাণিজ্যিক গণিত আৰু পৰিসংখ্যা বিজ্ঞান, Published by AHSEC.

