



Assam Higher Secondary Education Council (AHSEC)

2nd Year Syllabus

BUSINESS MATHEMATICS & STATISTICS

SYLLABUS FOR HIGHER SECONDARY FINAL YEAR COURSE

One Paper

Three Hours

Marks 100

Unitwise Distribution of Marks and Periods :

Unit No Title

Marks Periods

GROUP-A : BUSINESS MATHEMATICS (60 Marks)

Unit - 1	Simple and Compound Interest	15	30
Unit - 2	Linear inequalities	25	50
Unit - 3	(a) Set Theory	20	40
	(b) Determinants		
	(c) Matrices		

GROUP - B : STATISTICS (40 Marks)

Unit - 4	Statistical Average	12	25
	Positional measures }		
Unit - 5	Measures of Dispersion (Variation)	12	25
Unit - 6	(a) Probability	16	30
	(b) Correlation }		

Total

100

200



Unitwise Distribution of Course contents :

GROUP-A : BUSINESS MATHEMATICS (60 Marks)

Unit-1 : Simple and Compound Interest : Simple and Compound Interest, Annuity

Unit-2 : Linear inequalities : Linear inequalities and their graphical representation, Permutation & Combination (Elementary ideas and simple problems), Mathematical Induction (Simple problems), Binomial Theorem for positive Integral Index (Omit Binomial Co-efficient)

Unit-3 : (a) Set Theory : (Elementary Ideas), Elements, Types of Sets, Subsets (Proper and improper), Union, Intersection and Difference of Set, Complement of Set, Venn Diagram, Application of Sets (Simple Problems)

(b) Determinants : (Up to 3rd order), Meaning, Properties and Simple problems, Solution of equation by Cramer's Rule

(c) Matrices : Definition and type of Matrices, Equality of Matrices, Addition, Subtraction, Scalar Multiplication and Matrix Multiplication, (Adjoint and Inverse matrices should be excluded)

GROUP - B : STATISTICS (40 Marks)**Unit-4 : Statistical Average :**

Meaning, Purpose, Measures, Mean (A.M. G.M. H.M.), Median, Mode (For all series), their uses, merits and demerits, essential qualities of a good average.

Positional measures :

Quartiles, Deciles, Percentiles, Graphic method of location of median, of quartiles and mode

Unit-5 : Measures of Dispersion (Variation) :

Meaning, objects and function – Measures : Range, Quartile deviation, Mean deviation, Standard deviation (all series), Lorenz curve, Their uses, merits and demerits, Essential qualities of a good measure of dispersion, Co-efficient of variation.

Unit-6 : (a) Probability : Meaning, Definition (Mathematical or Classical approach), Event, Trial, Random experiment, Equally likely events, Mutually exclusive events, Favourable cases to an event.

[Numerical problems on definition of probability only. Addition and multiplication theorem on probability should be excluded]

(b) Correlation : Meaning, types, Karl Pearson's Correlation Co-efficient and its significance.



Study Materials

aglasem.com

Model Papers

Sample Papers

Half Yearly Sample Papers

Important Resources

Periodic Table

Writing Skills / Formats

Maps of India / World

Notes

☐ [Class 6 Notes](#)

☐ [Class 7 Notes](#)

☐ [Class 8 Notes](#)

☐ [Class 9 Notes](#)

☐ [Class 10 Notes](#)

☐ [Class 11 Notes](#)

☐ [Class 12 Notes](#)

Books and Solutions

NCERT Books

NCERT Book Solutions

HC Verma Chapter Wise Solutions

RD Sharma Solutions

CGBSE Solutions