

Boards of Technical Education Pakistan

Business Mathematics

(Approved Syllabus for ACCA students)

Total Contact/ Teaching Hours - 120
Total Marks – 100

S. No	Topics	Detail	Contact Hours	Marks
1	Number System	1.1) Introduction to number system 1.2) Kind of number system 1.3) Conversion of number system with each other	10	5
2	Estimation	Rounding Numbers: 2.1) Rounding to the Nearest Ten, 2.2) Rounding to the Nearest Hundred 2.3) Rounding to the Nearest Thousand 2.4) Rounding to the Nearest Hundred Thousand Rounding Decimals: 2.5) Rounding to the Nearest Tenth 2.6) Rounding to the Nearest Hundredth	2	5
3	Percentage	3.1) Percent of a Number 3.2) Finding Percentage 3.3) Fractions and percent 3.4) Percents and Fraction 3.5) Decimals and percents 3.6) Percents and Decimals	3	5
4	Application of Percentage	4.1) Definition of Commission 4.2) Discount Markup 4.3) Simple Interest	5	5

5	Ratio & Proportion	5.1) Ratio 5.2) Equal ratio 5.3) Continued Ratio 5.4) Dividing in a given ratio 5.5) Combining ration 5.6) Ratio of variables using coefficients 5.7) Proportion a) Direct proportion b) Indirect proportion 5.8) Compound proportion 5.9) Percentage 5.10) Profit and loss	20	15
6	Straight Line	6.1) Distance between two points 6.2) Mid-point formula 6.3) Slope between two points 6.4) Form of equations a) two points form b) slope point form c) Slope intercept form d) Two intercepts form 6.5) Intercepts 6.6) Sketching	20	15
7	Parabolic Curve	7.1) Coordinates of vertex 6.2) Roots of the function 6.3) Sketching	10	10
8	Linear Equation & Quadratic Equation	8.1) Linear Equation Involving one variable 8.2) Linear Involving two variables 8.3) Quadratic equation involving one variable only	10	10
9	Matrices & Determinants	9.1) Definition 9.2) Types of Matrices 9.3) Order of Matrices 9.4) Transpose of a Matrix 9.4) Addition and Subtraction of Matrices 9.5) Multiplication of Matrices 9.6) Multiplicative inverse of a matrix 9.7) Solution of equation by Cramer's rule and matrices Method	20	15

10	Finance	10.1) Simple Interest 10.2) Compound Interest: annual compounding and multiple compounding 10.3) Annuities	20	15
Total			120	100

Reference Books - Following authors' books have been recommended to study and prepare for Business Mathematics: Tutors/ students can also use the reference books besides below mentioned books as per the availability in their region.

- a) Khursheed Alam
- b) Shahid Jamal
- c) Hamid Abdul Hakim