



**COMMON ANNUAL EXAMINATION (2024-2025)**

**SYLLABUS**

CLASS: VII

SUBJECT: MATHEMATICS

**TEXTBOOKS:**

1. MATHEMATICS TEXTBOOK FOR CLASS VII BY NCERT
2. EXEMPLAR PROBLEM FOR CLASS VII BY NCERT

S.NO.	UNIT/CHAPTER /TOPIC	SUBTOPICS	WEIGHTAGE (MARKS)
1.	UNIT 4: SIMPLE EQUATIONS	4.1 A MIND-READING GAME! 4.2 SETTING UP OF AN EQUATION 4.3 REVIEW OF WHAT WE KNOW 4.4 WHAT EQUATION IS? 4.5 MORE EQUATIONS 4.6 APPLICATIONS OF SIMPLE EQUATIONS TO PRACTICAL SITUATIONS	5
2.	UNIT 5: LINES AND ANGLES	5.1 INTRODUCTION 5.2 RELATED ANGLES 5.3 PAIRS OF LINES 5.4 CHECKING FOR PARALLEL LINES	5
3.	UNIT 6: TRIANGLES AND ITS PROPERTIES	6.1 INTRODUCTION 6.2 MEDIANS OF A TRIANGLE 6.3 ALTITUDES OF A TRIANGLE 6.4 EXTERIOR ANGLE OF A TRIANGLE AND ITS PROPERTY 6.5 ANGLE SUM PROPERTY OF A TRIANGLE 6.6 TWO SPECIAL TRIANGLES: EQUILATERAL AND ISOSCELES 6.7 SUM OF THE LENGTHS OF TWO SIDES OF A TRIANGLE 6.8 RIGHT-ANGLED TRIANGLES AND PYTHAGORAS PROPERTY	9
4.	UNIT 7: COMPARING QUANTITIES	7.1 PERCENTAGE - ANOTHER WAY OF COMPARING QUANTITIES 7.2 USE OF PERCENTAGES 7.3 PRICES RELATED TO AN ITEM OR BUYING AND SELLING 7.4 CHARGE GIVEN ON BORROWED MONEY OR SIMPLE INTEREST	8

5.	UNIT 8: RATIONAL NUMBERS	8.1 INTRODUCTION 8.2 NEED FOR RATIONAL NUMBERS 8.3 WHAT ARE RATIONAL NUMBERS? 8.4 POSITIVE AND NEGATIVE RATIONAL NUMBERS 8.5 RATIONAL NUMBERS ON A NUMBER LINE 8.6 RATIONAL NUMBERS IN STANDARD FORM 8.7 COMPARISON OF RATIONAL NUMBERS 8.8 RATIONAL NUMBERS BETWEEN TWO RATIONAL NUMBERS 8.9 OPERATIONS ON RATIONAL NUMBERS	9
6.	UNIT 9: PERIMETER AND AREA	9.1 AREA OF A PARALLELOGRAM 9.2 AREA OF A TRIANGLE 9.3 CIRCLES	7
7.	UNIT 10: ALGEBRAIC EXPRESSIONS	10.1 INTRODUCTION 10.2 HOW ARE EXPRESSIONS FORMED? 10.3 TERMS OF AN EXPRESSION 10.4 LIKE AND UNLIKE TERMS 10.5 MONOMIALS, BINOMIALS, TRINOMIALS AND POLYNOMIALS 10.6 FINDING THE VALUE OF AN EXPRESSION	5
8.	UNIT 11: EXPONENTS AND POWERS	11.1 INTRODUCTION 11.2 EXPONENTS 11.3 LAWS OF EXPONENTS 11.4 MISCELLANEOUS EXAMPLES USING THE LAWS OF EXPONENTS 11.5 DECIMAL NUMBER SYSTEM 11.6 EXPRESSING LARGE NUMBERS IN THE STANDARD FORM	9
9.	UNIT 13: VISUALISING SOLID SHAPES	13.1 INTRODUCTION: PLANE FIGURES AND SOLID SHAPES 13.2 FACES, EDGES AND VERTICES 13.3 NETS FOR BUILDING 3-D SHAPES 13.4 DRAWING SOLIDS ON A FLAT SURFACE 13.5 VIEWING DIFFERENT SECTIONS OF A SOLID	3
			<b>TOTAL MARKS= 60</b>