

SALWAN OPEN MASTERY ACHIEVEMENT TEST (SOMAT)- 2019-20

SYLLABUS - LEVEL 2 (ENGLISH)

Total No. of Questions = 40

Max. Marks = 40

Class IX Moving

Time: 2 hours

Grammar Usage:

(15 Questions)

• Determiners	• Transformation of Sentences	• Editing/ Omission	• Passive Voice
• Reported Speech	• Non-Finites	• Punctuation marks	• Pronouns
• Tenses	• Adverbs	• Adjectives	• Kinds of Sentences
• Prepositions	• Conjunctions		

Questions in Reading Comprehension will be based on:

(2 Passages, Weightage 7+8=15 marks)

(15 Questions)

• Discovering Main Idea	• Identifying Detail	• Sequencing Events	• Getting Facts
• Drawing Conclusions/ Predicting Outcomes	• Distinguishing Between Fact and Opinion	• Understanding Cause and Effect	• Comparing and Contrasting Ideas
• Generating and Answering Questions		• Summarizing Concepts	

Understanding Vocabulary:

(10 Questions)

• Synonyms	• Antonyms	• Spelling	• Word Meaning
• Idioms & Phrases	• Analogies	• Prefix/Suffix	• Homonyms
• Visualizing Ideas	• Determining Author's Purpose	• Understanding Point of View	

MATHEMATICS SYLLABUS FOR SOMAT 2019 – LEVEL 2

Total no. of questions= 40

CLASS IX MOVING

Time: 2 hours

TOPIC	SUB TOPIC	NUMBER OF QUESTIONS
Basics of Numbers	1. Number Expansion 2. Rational Numbers	2
Algebra	1. Basic operations on Algebraic Expressions 2. Identities : $(a + b)^2$, $(a - b)^2$, $a^2 - b^2$, $(x + a)(x + b)$ 3. Factorization	5
Linear Equations	1. Solving Linear Equations 2. Formulation of linear equation from a given situation.	5
Percentages and ratio	1. Ratio and Proportion 2. Percentages and its applications 3. Simple and compound interest 4. Direct and Inverse Variation	4
Powers and Exponents	1. Square roots and cube roots 2. Properties of exponents	4
Angles between parallel lines	1. Angle properties between parallel lines and transversal.	3
Triangles	1. Properties of triangles 2. Congruence	4
Quadrilaterals	1. Types of quadrilaterals. 2. Properties of parallelogram, square, rectangle, rhombus, trapezium and kite	5
Mensuration	1. Area and Perimeter of regular shapes 2. Surface area of 3 - D shapes 3. Volume of cube, cuboid and cylinder	5
Data Interpretation and Graph	1. Range, Class Marks 2. Mean, Median and Mode (Ungrouped data) 3. Coordinate Axis	3

SYLLABUS (SCIENCE) (LEVEL 2)

Total No. of Questions: 50

Total Marks = 50 marks

Class IX Moving

Duration = Two hours

S. NO.	TOPIC	CONCEPTS	NUMBER OF QUESTIONS
1	NUTRITION	ANIMAL:- • Human Digestive System • Deficiency Diseases • Food Test	6

		<p><u>PLANT:-</u></p> <ul style="list-style-type: none"> • Photosynthesis • Leaf and Stomata • Mode of Nutrition • Nitrogen Fixation 	
2	RESPIRATION	<ul style="list-style-type: none"> • Aerobic and Anaerobic Respiration • Human Respiratory System • Respiration in Plants 	3
3	TRANSPORTATION	<p><u>ANIMAL:-</u></p> <ul style="list-style-type: none"> • Need for Circulatory System • Detailed Circulatory System – Blood, Blood Vessel and Heart. <p><u>PLANT:-</u></p> <ul style="list-style-type: none"> • Root • Vascular Tissues • Transpiration 	3
4	EXCRETION	<ul style="list-style-type: none"> • Human Excretory System 	2
5	REPRODUCTION	<p><u>ANIMAL:-</u></p> <ul style="list-style-type: none"> • Asexual and Sexual Reproduction • Male and Female Reproductive System • Reproductive Health <p><u>PLANT:-</u></p> <ul style="list-style-type: none"> • Asexual Reproduction • Sexual Reproduction (Flower, Pollination, Fertilisation, Fruit and Seed Formation) 	4
6	CELL	<ul style="list-style-type: none"> • Basics of Cell 	2
7	ADAPTATION	<ul style="list-style-type: none"> • Adaptation features in Plants and Animals 	2
6	FORCE,PRESSURE AND FRICTION	<ul style="list-style-type: none"> • Types of Forces (Balanced and Unbalanced forces) and applications • Understanding and calculation of Pressure • Pressure exerted by liquids and gases • Atmospheric pressure • Variation of Pressure with height • Types of Friction • Factors affecting Friction • 	3
7	ELECTRICITY AND MAGNETISM	<ul style="list-style-type: none"> • Conductors and Insulators • Components of Electric Circuit (Bulb, Switch, Fuse etc.) • Working of Electric Circuits • Heating effect of an electric current • Magnetic effect of an electric current – characteristics of magnet • Chemical effect of an electric current – Electrolysis of water, Electroplating and its applications 	4
8	LIGHT	<ul style="list-style-type: none"> • Reflection of light and Laws of reflection • Image formation by plain mirror • Image formation by spherical mirrors and uses • Types of lenses and uses • Ray Diagrams • How do we see things - Eye – basics • Dispersion of Light - Colour 	5
9	HEAT	<ul style="list-style-type: none"> • Understanding of Heat • Thermometer • Modes of heat transfer 	3
10	TIME AND MOTION	<ul style="list-style-type: none"> • Measurement of speed and time • Distance – time Graph • Types of motion 	4
11	SOUND	<ul style="list-style-type: none"> • What is sound? • Pitch(frequency), Amplitude of sound and Time period 	3
12	METALS AND NON METALS	<ul style="list-style-type: none"> • Symbols of Atoms and Molecules • Physical and Chemical properties of Metals and Non Metals. • Applications of Metals and Non Metals. 	4
13	CHANGES AROUND US	<ul style="list-style-type: none"> • Acids, bases and salts • Physical and chemical changes • Litmus test 	2

