

# AMSAT

CENTROID | GRAVITAS | Dr. SK SIR'S BIOLOGY

## CLASS 10

### TEST 1

#### MATHEMATICS

- Logarithm
- Modulus, Greatest Integer
- Inequality

#### PHYSICS

- METHAMATICAL PHYSICS
- OPTICS

(\*REFER THE MAIN SYLLABUS PAGE FOR DETAILED TOPICWISE DATA)

#### CHEMISTRY

- Atoms & molecules
- Solutions

#### BIOLOGY

- CELL BIOLOGY (Full)
- EVOLUTION (First 2 topics)

SEPT 22, 2024, SUNDAY

### TEST 2

#### MATHEMATICS

- Trigonometry
- Binomial Theorem
- Permutation and Combination

#### PHYSICS

- Electrodynamics

( Current electricity & Magnetism )

- Mechanics

(\*REFER THE MAIN SYLLABUS PAGE FOR DETAILED TOPICWISE DATA)

#### CHEMISTRY

- Periodic classifications
- Metals & nonmetals

#### BIOLOGY

- Animal Forms and Physiology (Full)
- Plant Biology (Upto Plant Hormones)

OCT 27, 2024, SUNDAY

### TEST 3

#### MATHEMATICS

- Geometry
- Co-ordinate Geometry
- Solution of Triangle

#### PHYSICS

- Waves & Oscillations
- OPTICS

(\*REFER THE MAIN SYLLABUS PAGE FOR DETAILED TOPICWISE DATA)

#### CHEMISTRY

- Acids base & salts
- Evaporation

#### BIOLOGY

- Genetics and Biology Application (Full)

DEC 15, 2024, SUNDAY

### TEST 4

#### MATHEMATICS

- Quadratic Equation
- AP, GP, HP
- Area, Volume

#### PHYSICS

- Electrodynamics
- OPTICS
- Mechanics

(\*REFER THE MAIN SYLLABUS PAGE FOR DETAILED TOPICWISE DATA)

#### CHEMISTRY

- Carbon & its compounds

#### BIOLOGY

- Ecology and Preventive Biology (Full)
- Diversity Part (From Evolution and Diversity)

JAN 05, 2025, SUNDAY

### TEST PATTERN

#### Section A: Passage-Based Comprehension

- 3 passages with 3 multiple-choice questions each
- Each question carries 2 marks for correct answer, -1 mark for incorrect answer, and 0 marks for no answer
- Total marks for this section: 18

#### Section B: Multiple Choice Questions

- 6 multiple-choice questions
- Each question carries 2 marks for correct answer, -1 mark for incorrect answer, and 0 marks for no answer
- Total marks for this section: 12

#### Exam Instructions:

- Please read the instructions on question paper carefully before starting the exam.
- Make sure to write your name and roll number on the answer sheet.
- Use only the designated answer sheet for recording your answers.
- Exam duration will be 2 hours

# JESAT

CENTROID | GRAVITAS | Dr. SK SIR'S BIOLOGY

## CLASS 10

### TEST 1

#### MATHEMATICS

- Real Number
- Polynomials
- Pair of Linear equations in two variables
- Quadratic Equation

#### PHYSICS

- Light – Reflection and Refraction

(\*Topic details for each section will be as per CBSE board syllabus )

#### CHEMISTRY

- Chemical reaction equation
- Acid, Base and Salt

#### BIOLOGY

- Life Processes

SEPT 22, 2024, SUNDAY

### TEST 2

#### MATHEMATICS

- Arithmetic Progression
- Triangles
- Co-ordinate Geometry

#### PHYSICS

- Electricity
- Magnetic Effects of Electric Current

(\*Topic details for each section will be as per CBSE board syllabus)

#### CHEMISTRY

- Acid, Base and Salt
- Metal and non metal

#### BIOLOGY

- Control and co-ordination in animals and plants.

OCT 27, 2024, SUNDAY

### TEST 3

#### MATHEMATICS

- Introduction to Trigonometry
- Heights and Distance
- Circles

#### PHYSICS

- Light – Reflection and Refraction
- Human Eye and Colourful World

(\*Topic details for each section will be as per CBSE board syllabus)

#### CHEMISTRY

- Metal and Non Metal
- Carbon and its compounds

#### BIOLOGY

- Reproduction

NOV 17, 2024, SUNDAY

### TEST 4

#### MATHEMATICS

- Statistics
- Probability
- Areas related to Circles
- Surface Areas and Volumes

#### PHYSICS

- Light – Reflection and Refraction
- Electricity

(\*Topic details for each section will be as per CBSE board syllabus)

#### CHEMISTRY

- Carbon and its compounds
- Chemical reaction and equation

#### BIOLOGY

- Heredity and Evolution
- Our Environment

DEC 15, 2024, SUNDAY

### TEST 5 & 6

MATHEMATICS, PHYSICS, CHEMISTRY, BIOLOGY

FULL SYLLABUS ( As per CBSE )

SCHEDULES

Test 5: JAN 05, 2025, SUNDAY

Test 6: JAN 19, 2025, SUNDAY

### TEST PATTERN

#### Section A:Multiple Choice Questions

- 10 Multiple-Choice Questions
- Each question carries 2 marks for correct answer, -1 mark for incorrect answer, and 0 marks for no answer
- Total marks for this section: 20

#### Section B:Numerical Answer Type

- 5 Numerical Answer Type Questions
- Each question carries 2 marks for correct answer, -1 mark for incorrect answer, and 0 marks for no answer
- Total marks for this section: 10

#### Exam Instructions:

Exam duration will be 2 hours, 30 marks per subject, Total Score: 30x4=120 marks

# AMSAT

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## CLASS 9

### TEST 1

#### MATHEMATICS

- Algebra, Factorisation
- Inequality
- Logarithm

#### PHYSICS

- METHAMATICAL PHYSICS
- MECHANICS

(\*REFER THE MAIN SYLLABUS PAGE FOR DETAILED TOPICWISE DATA)

#### CHEMISTRY

- Atoms & molecules
- Solutions

#### BIOLOGY

- Cell Biology (Full)

SEPT 22, 2024, SUNDAY

### TEST 2

#### MATHEMATICS

- Geometry
- Modulus Concept, Greatest Integer
- Trigonometry

#### PHYSICS

- MECHANICS
- Waves & Oscillations
- Optics

(\*REFER THE MAIN SYLLABUS PAGE FOR DETAILED TOPICWISE DATA)

#### CHEMISTRY

- Metals & Nonmetals

#### BIOLOGY

- Mendelian Genetics (Monohybrid Cross, Dihybrid Cross and Family Pedigree)

OCT 27, 2024, SUNDAY

### TEST 3

#### MATHEMATICS

- Co-ordinate Geometry (Upto Straight Line)
- Exponent, Rationalisation
- Quadratic Equation

#### PHYSICS

- Mechanics
- Mathematical Physics
- Waves & Oscillations

(\*REFER THE MAIN SYLLABUS PAGE FOR DETAILED TOPICWISE DATA)

#### CHEMISTRY

- Acid,base & salts
- Evaporation

#### BIOLOGY

- Animal Tissue,
- Digestive System,
- Body fluids & Circulation,
- Respiratory System

DEC 15, 2024, SUNDAY

### TEST 4

#### MATHEMATICS

- Arithmetic Progression
- Mensuration
- Partial Fraction

#### PHYSICS

- Mechanics
- Electrodynamics
- Waves & Oscillations

(\*REFER THE MAIN SYLLABUS PAGE FOR DETAILED TOPICWISE DATA)

#### CHEMISTRY

- Metals & Nonmetals

#### BIOLOGY

- Plant Biology (Upto Respiration)
- Characteristics of living organisms,
- Characteristics of Monera, Protists, Plants, Fungi, and Animals

JAN 05, 2025, SUNDAY

### TEST PATTERN

#### Section A: Passage-Based Comprehension

- 3 passages with 3 multiple-choice questions each
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- Total marks for this section: 18

#### Section B: Multiple Choice Questions

- 6 multiple-choice questions
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## CLASS 9

### TEST 1

#### MATHEMATICS

- Number System
- Polynomials
- Co-ordinate Geometry

#### PHYSICS

- Motion
- Force & Laws of Motion

(\*Topic details for each section will be as per CBSE board syllabus )

#### CHEMISTRY

**SEPT 22, 2024, SUNDAY**

- Matter in our surrounding
- Is Matter around us pure?

#### BIOLOGY

- Cell

### TEST 2

#### MATHEMATICS

- Linear Equations in two variables
- Lines and Angles
- Triangles

#### PHYSICS

- Gravitation
- Work & Energy

(\*Topic details for each section will be as per CBSE board syllabus)

#### CHEMISTRY

**OCT 27, 2024, SUNDAY**

- Is Matter around us Pure?
- Atoms and Molecules

#### BIOLOGY

- Tissue (Plant and Animal)

### TEST 3

#### MATHEMATICS

- Quadrilaterals
- Circles
- Introduction to Euclid's Geometry

#### PHYSICS

- Motion
- Force & Laws of Motion
- Sound

(\*Topic details for each section will be as per CBSE board syllabus)

#### CHEMISTRY

**NOV 17, 2024, SUNDAY**

- Atoms and Molecules
- Atomic Structure

#### BIOLOGY

- Food Production

### TEST 4

#### MATHEMATICS

- Heron's Formula
- Statistics
- Probability

#### PHYSICS

- Gravitation
- Work & Energy
- Sound

(\*Topic details for each section will be as per CBSE board syllabus)

#### CHEMISTRY

**DEC 15, 2024, SUNDAY**

- Atomic Structure
- Matter

#### BIOLOGY

- Why do we fall ill?
- Diversity in Living Organisms.

# Both the chapters are deleted from CBSE as per reduced syllabus, however many schools still assess students on

### TEST 5 & 6

#### MATHEMATICS, PHYSICS, CHEMISTRY, BIOLOGY

FULL SYLLABUS ( As per CBSE )

#### SCHEDULES

**Test 5: JAN 05, 2025, SUNDAY**

**Test 6: JAN 19, 2025, SUNDAY**

### TEST PATTERN

#### Section A:Multiple Choice Questions

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#### Section B:Numerical Answer Type

- 5 Numerical Answer Type Questions
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# AMSAT

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## CLASS 8

### TEST 1

#### MATHEMATICS

- Exponents, Power
- Rationalisation
- Lines, Angle, Triangle, Quadrilateral

#### PHYSICS

- Mechanics
- Optics

(\*REFER THE MAIN SYLLABUS PAGE FOR DETAILED TOPICWISE DATA)

#### CHEMISTRY

- Nature of Matter
- Periodic Table

#### BIOLOGY

- Protective function of the immune system and vaccination.
- Microorganisms causing common and infectious diseases
- Cell Structure & their functions.
- Cell Cycle (Meiosis not included)

SEPT 22, 2024, SUNDAY

### TEST 2

#### MATHEMATICS

- Algebraic expression, Identity, Factorisation
- Trigonometry (Upto Class 10)
- Heights and Distance

#### PHYSICS

- Mechanics
- Waves & Oscillations

(\*REFER THE MAIN SYLLABUS PAGE FOR DETAILED TOPICWISE DATA)

#### CHEMISTRY

- Atomic Structure
- Metals and Non-metals

#### BIOLOGY

- ANIMAL Forms & PHYSIOLOGY (Animal Tissue & Animal Reproductive System)
- Plant Biology (Plant Tissue, Transpiration, Photosynthesis and Plant Reproduction)

OCT 27, 2024, SUNDAY

### TEST 3

#### MATHEMATICS

- Quadratic Equation
- Inequality
- Circle

#### PHYSICS

- Mechanics
- Waves & Oscillations and
- Charges

(\*REFER THE MAIN SYLLABUS PAGE FOR DETAILED TOPICWISE DATA)

#### CHEMISTRY

- Chemical Effects of Electric Current
- Gaseous states of matter

#### BIOLOGY

- ANIMAL FORMS & PHYSIOLOGY (Digestive System, Body fluids & Circulation, Respiratory System, Excretory System)
- DIVERSITY (Characteristics of living organisms, Principles of taxonomy and classification of living organisms)

DEC 15, 2024, SUNDAY

### TEST 4

#### MATHEMATICS

- Mensuration
- Basic Co-ordinate System (Upto Class 10 CBSE)
- Divisibility rules, LCM, HCM

#### PHYSICS

- Mechanics
- Optics
- Waves & Oscillations and
- Charges

(\*REFER THE MAIN SYLLABUS PAGE FOR DETAILED TOPICWISE DATA)

#### CHEMISTRY

- Chemical Bonding, Chemical Reactions
- Acid, base and salt

#### BIOLOGY

- ECOLOGY & PREVENTIVE BIOLOGY (Biogeochemical cycles, Producers, consumers, and decomposers, Food chains and webs, Factors affecting ecosystems)
- ANIMAL Forms & PHYSIOLOGY (Nervous system, Endocrine system)

JAN 05, 2025, SUNDAY

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# JESAT

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## CLASS 8

### TEST 1

#### MATHEMATICS

- Rational Numbers
- Linear Equations in One Variable
- Exponents & Power

#### PHYSICS

- Force & Pressure
- Friction

(\*Topic details for each section will be as per CBSE board syllabus )

#### CHEMISTRY

- Synthetic Fibres & Plastics
- Metal & Non-Metals

#### BIOLOGY

- Crop Production and Management
- Microorganisms: Friend and Foe

**SEPT 22, 2024, SUNDAY**

### TEST 2

#### MATHEMATICS

- Understanding Quadrilaterals
- Algebraic Expressions & Identities
- Factorisation

#### PHYSICS

- Light
- Some Natural Phenomena

(\*Topic details for each section will be as per CBSE board syllabus)

#### CHEMISTRY

- Metal & Non-Metal
- Coal & Petroleum

#### BIOLOGY

- Microorganisms: Friend and Foe
- Conservation of Plants and Animals

**OCT 27, 2024, SUNDAY**

### TEST 3

#### MATHEMATICS

- Squares & Square Roots
- Cubes & Cube Roots
- Introduction to Graphs

#### PHYSICS

- Sound
- Stars & Solar System

(\*Topic details for each section will be as per CBSE board syllabus)

#### CHEMISTRY

- Coal & Petroleum
- Combustion & Flame

#### BIOLOGY

- Conservation of Plants and Animals
- Reproduction in Animals

**NOV 17, 2024, SUNDAY**

### TEST 4

#### MATHEMATICS

- Data Handling
- Comparing Quantities
- Playing with Numbers

#### PHYSICS

- Force & Pressure
- Friction
- Light
- Sound (\*Topic details for each section will be as per CBSE board)

#### CHEMISTRY

- Combustion & Flame
- Some Basic Concept Of Chemistry

#### BIOLOGY

- Crop Production and Management
- Reproduction in Animals
- Reaching the age of Adolescence

**JAN 05, 2025, SUNDAY**

### TEST 5 & 6

**MATHEMATICS, PHYSICS, CHEMISTRY, BIOLOGY**

FULL SYLLABUS ( As per CBSE )

**SCHEDULES**

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