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BITSAT Syllabus 2018

Physics Syllabus

- Units & Measurement
- Kinematics
- Newton's Laws of Motion
- Impulse and Momentum
- Work and Energy
- Rotational Motion
- Gravitation
- Mechanics of Solids and Fluids
- Oscillations
- Waves
- Heat and Thermodynamics
- Electrostatics
- Current Electricity
- Magnetic Effect of Current
- Electromagnetic Induction
- Optics
- Modern Physics
- Electronic Devices

Chemistry Syllabus

- The States of Matter
- Atomic Structure
- Chemical Bonding & Molecular Structure
- Thermodynamics
- Physical and Chemical Equilibria
- Electrochemistry
- Chemical Kinetics

- Hydrogen and s-block elements
- p- d- and f-block elements
- Principles of Organic Chemistry and Hydrocarbons
- Stereochemistry
- Surface Chemistry
- Organic Compounds with Functional Groups Containing Oxygen and Nitrogen
- Theoretical Principles of Experimental Chemistry
- Biological, Industrial and Environmental Chemistry

Mathematics Syllabus

- Algebra
- Trigonometry
- Two-dimensional Coordinate Geometry
- Three-dimensional Coordinate Geometry
- Differential calculus
- Integral calculus
- Ordinary Differential Equations
- Probability
- Vectors
- Statistics
- Linear Programming
- Mathematical Modeling

English Proficiency & Logical Reasoning

- Binary Logic.
- Syllogism.
- Analogy.
- Verbal Reasoning.
- Non-verbal Reasoning.
- Clocks & Calendars.
- Puzzle Test.
- Classification Test.
- Alphabet Test.
- Eligibility Test.
- Data Sufficiency.

- Theme Detection.
- Coding-Decoding.
- Blood Relations.
- Series Completion.
- Assertion & Reason.
- Situation Reaction Test.
- Direction Sense Test.
- Statement – Conclusions.
- Logical Venn Diagrams.
- Number and Letter Series.
- Statement – Arguments.
- Logical Sequence of Words.
- Arithmetical Reasoning.
- Mathematical Operations.
- Alpha Numeric Sequence Puzzle.
- Inserting the Missing Character.
- Number, Ranking & Time Sequence.
- Linear and Matrix arrangement.
- Deriving Conclusions from Passages.

BITSAT Exam Pattern

The detailed exam pattern is mentioned below:

- **Duration:** The duration will be total three hours (without break).
 - **Exam Mode:** The exam will be conducted in computer based mode.
 - **Type of Question:** The question paper will contain multiple choice questions.
 - **Marking Scheme:** Three marks will be given for each correct answer.
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- **Negative Marking:** One mark will be deducted for a wrong answer.
- **Number of Question:** Total 150 questions will be asked.

Section	Subject	No. of Question
Part I	Physics	40
Part II	Chemistry	40
Part III	(a) English Proficiency	15
	(b) Logical Reasoning	10
Part IV	Mathematics/Biology (For B.Pharm)	45
Total		150

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