



# Rao IIT Academy

Symbol of Excellence and Perfection

JEE | MEDICAL-UG | BOARDS | KVPY | NTSE | OLYMPIADS

## IBSC - SYLLABUS - 2019

### ❖ 8TH - STANDARD ❖

#### ❖ SCIENCE ❖

1. Measurement
2. Motion
3. Force and Friction
4. Work, Power & Energy
5. Fluids
6. Heat
7. Light
8. Sound
9. Some Natural Phenomena
10. Electricity
11. Magnetism
12. Electromagnetism
13. Source of energy
14. Stars & The Solar System
15. Structure of Atom
16. Carbon
17. Transformation of Substances
18. Metals & Non Metals
19. Air and Water
20. Synthetic Fibers & Plastics
21. Coal and Petroleum
22. Combustion and Flame
23. Acids, Bases and Salts
24. Cell
25. Tissue
26. Reproduction in Plants
27. Crop Production & Management
28. Microbial World

29. Diseases
30. Conservation of Plants and Animals
31. Pollution of Air and Water

#### ❖ MATHS ❖

1. Number System
2. Linear Equations In One Variable
3. Arithmetic
4. Triangles & Congruent Triangles
5. Quadrilaterals & Polygons
6. Circles
7. Algebra
8. Mensuration
9. Sets
10. Statistics
11. Logarithms
12. Co ordinate Geometry

**❖ MENTAL ABILITY ❖****SECTION - A : VERBAL TEST**

1. Series
2. Analogy
3. Coding - Decoding
4. Classification
5. Missing Value in the Figure
6. Arithmetical Reasoning
7. Venn Diagrams
8. Sitting Arrangement & Puzzle Test
9. Number, Ranking & Time Sequence Test
10. Direction Sense Test & Mathematical Operations
11. Blood Relations

**SECTION - B : NON VERBAL TEST**

1. Series
2. Analogy
3. Classification
4. Mirror and Water Images
5. Counting in Figures
6. Paper Folding & Paper Cutting
7. Dice and Cube
8. Embedded Figures and Dot Situation
9. Figure Matrix and Pattern Completion



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## IBSC - SYLLABUS - 2019

### ❖ 9TH - STANDARD ❖

#### ❖ SCIENCE ❖

1. Physical Quantity & Units
2. Measurement and measuring instrument
3. Introduction to Differentiation
4. Motion
5. Force & Laws of motion
6. Work, Power & Energy
7. Gravitation
8. Fluids
9. Heat
10. Light
11. Electricity
12. Magnetism
13. Wave motion & sound
14. Modern Physics
15. Matter in our Surrounding
16. Is Matter Around Us Pure
17. Atoms and Molecules
18. Atomic Structure
19. Classification of Elements & Periodic Properties
20. Chemical Bonding
21. Solutions
22. Organic Chemistry
23. Cell
24. Tissue
25. Bio Diversity
26. Health & Disease

27. Natural Resources
28. Improvement in food

#### ❖ MATHS ❖

1. Number System
2. Algebra
3. Linear Equations In One Variable
4. Quadratic Equation
5. Geometry
6. Circles
7. Co-ordinate geometry
8. Progression
9. Mensuration
10. Permutation & Combination
11. Trigonometry
12. Probability
13. Statistics

**❖ MENTAL ABILITY ❖****SECTION - A : VERBAL TEST**

1. Series
2. Analogy
3. Coding - Decoding
4. Classification
5. Missing Value in the Figure
6. Arithmetical Reasoning
7. Venn Diagrams
8. Sitting Arrangement & Puzzle Test
9. Number, Ranking & Time Sequence Test
10. Direction Sense Test & Mathematical Operations
11. Blood Relations
12. Clock and Calendar
13. Syllogism

**SECTION - B : NON VERBAL TEST**

1. Series
2. Analogy
3. Classification
4. Mirror and Water Images
5. Counting in Figures
6. Paper Folding & Paper Cutting
7. Pyramids
8. Dice and Cube
9. Embedded Figures and Dot Situation Test
10. Figure Matrix and Pattern Completion
11. Data Interpretation



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## IBSC - SYLLABUS - 2019

### ❖ 10TH - STANDARD ❖

#### ❖ PHYSICS + CHEMISTRY ❖

1. Introduction to Integration
2. Dimensions
3. Vector
4. Heat
5. Light
6. Fluids
7. Wave Motion & Sound
8. Electricity
9. Magnetism
10. Modern Physics
11. Source of energy
12. Atomic Structure
13. Chemical Bonding
14. Acids, Bases & Salts
15. Metals & Non-metals
16. Chemical kinetics & Chemical Equilibrium
17. Electrochemistry
18. Organic Chemistry-II
19. Analytical Chemistry

#### ❖ MATHS ❖

1. Number System
2. Linear Equations In One Variable
3. Sets, Relations & Functions
4. Logarithm
5. Quadratic Equation
6. Progression
7. Trigonometry
8. Mensuration
9. Geometry
10. Co-ordinate geometry
11. Combinatorics & Probability
12. Statistics
13. Matrices

#### ❖ BIOLOGY ❖

1. Nutrition
2. Respiration
3. Circulation
4. Excretion
5. Control & Coordination
6. Reproduction
7. Heredity & Evolution
8. Our Environment
9. Natural Resources

**❖ MENTAL ABILITY ❖****SECTION - A : VERBAL TEST**

1. Series
2. Analogy
3. Coding - Decoding
4. Classification
5. Missing Value in the Figure
6. Mathematical Reasoning
7. Venn Diagrams
8. Sitting Arrangement
9. Mathematical Operators
10. Direction
11. Blood Relations
12. Number, Ranking & Time Sequence Test

**SECTION - B : NON VERBAL TEST**

1. Series
2. Analogy
3. Classification
4. Mirror and Water Images
5. Counting in Figures
6. Paper Folding & Paper Cutting
7. Pyramids
8. Dice and Cube
9. Embedded Figures and Dot Situation
10. Figure Matrix and Pattern Completion
11. Data Interpretation