

**Date: 16.11.2023**

## **Admission Notice for Class XI (2024-25)**

### **Criteria for External Students:**

**Procedure:** The candidates of Class XI will be selected on the basis of Offline Admission Test.

**Form:** Parents and guardians are requested to fill the form from the link i.e.

**[https://www.admissiontree.in/schools/BB?utm\\_source=21](https://www.admissiontree.in/schools/BB?utm_source=21)**

Please fill in the required details and submit the same online. The online registration form must be filled as per instructions given on the website. Parents must follow all instructions carefully. At the time of submission of form, an auto generated Bank Deposit Slip will generate for depositing the application form fee online. Parents are requested to take a print of the form along with an auto generated Bank Deposit Slip on A-4 size paper only.

### **Registration form can also be collected from school office.**

**Payment :** A sum of **Rs. 1,200/-** (Rupees One Thousand Two Hundred Only) on account of registration fee, through online payment. This amount will not be refunded under any circumstances.

**Documents :** The following documents are to be scanned and mailed to **[birlabharatiadmission@gmail.com](mailto:birlabharatiadmission@gmail.com)**

1. Birth Certificate of candidate
2. Aadhaar Card of candidate (If available) and both the Parents.
3. Certificate issued by government for ST/SC/OBC/ Minority category (not required for general category).
4. Current year ID card, if sibling is a student of Birla Bharati
5. Address Proof
6. Final Mark sheet of class IX and latest result of class X.

The date and time of admission test will be provided within the 7-8 days of mailing the documents. **The exams will be conducted in the school premises.**

<b>Subjected opted for</b>	<b>Has to appear for following examinations.</b>
<b>Science with or without Mathematics</b>	<ul style="list-style-type: none"><li>• Mathematics- 50 marks (Theory based)</li><li>• Physics- 25 marks (MCQ and Theory based)</li><li>• Chemistry - 25 marks (MCQ and Theory based)</li></ul>
<b>Humanities with Mathematics</b>	<ul style="list-style-type: none"><li>• Mathematics- 50 marks (Theory based)</li><li>• English-50 marks (Theory based)</li></ul>
<b>Humanities without Mathematics</b>	<ul style="list-style-type: none"><li>• English-50 marks (Theory based)</li></ul>
<b>Commerce with Mathematics</b>	<ul style="list-style-type: none"><li>• Mathematics- 50 marks (Theory based)</li></ul>
<b>Commerce without Mathematics</b>	<ul style="list-style-type: none"><li>• <b>No Exam.</b> Must score 60% average marks in the last school-based examination of Class X.</li></ul>

**Note:** Students opting for **Economics** in any stream must get at least **50% marks in Mathematics** in the last school-based examination.

**All the external candidates opting for Physical Education must submit a fitness certificate issued by medical practitioner of a Government register hospital. This will be followed by an internal selection procedure.**

# BIRLA BHARATI

SUBJECTS OFFERED FOR CLASSES XI-XII (2024-25)

## SCIENCE

SL.NO	OPTION-A	OPTION-B	OPTION-C
1	ENGLISH CORE	ENGLISH CORE	ENGLISH CORE
2	PHYSICS	PHYSICS	PHYSICS
3	CHEMISTRY	CHEMISTRY	CHEMISTRY
4	MATHEMATICS	MATHEMATICS	PSYCHOLOGY or HOME SCIENCE
5	BIOLOGY	COMPUTER SCIENCE	BIOLOGY
6	PHYSICAL EDUCATION or FASHION STUDIES	PHYSICAL EDUCATION or FASHION STUDIES	PHYSICAL EDUCATION or FASHION STUDIES

## COMMERCE

1	ENGLISH CORE
2	ACCOUNTANCY
3	BUSINESS STUDIES
4	ECONOMICS or HOME SCIENCE or LEGAL STUDIES
5	MATHEMATICS or ENTREPRENEURSHIP or FASHION STUDIES
6	PHYSICAL EDUCATION or BENGALI or HINDI

## HUMANITIES

1	ENGLISH CORE
2	GEOGRAPHY
3	PSYCHOLOGY or POLITICAL SCIENCE
4	MATHEMATICS or HISTORY or FASHION STUDIES
5	ECONOMICS or HOME SCIENCE or LEGAL STUDIES
6	PHYSICAL EDUCATION or BENGALI or HINDI

Please note that if less than 10 students opt for a subject, it will not be applicable as a valid subject choice.

In that case, the second option will be applicable.

# Admission Test Syllabus For Class XI- 2024-25

## MATHEMATICS

### 1. Algebra:

- Polynomials
- Linear equations in two variables
- Quadratic equations

### 2. Coordinate geometry:

- Distance formula
- Section formula

### 3. Trigonometry:

- Trigonometric ratios
- T - ratios of particular angles ( $0^\circ, 30^\circ, 45^\circ, 60^\circ, 90^\circ$ )
- Trigonometric identities
- Heights and distances

### 4. Similarity of Triangles

### 5. Mensuration:

- Areas related to circles - problems related to areas and perimeter/ circumference of circle
- Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right - circular cylinders/ cones

### 6. Probability

---

## PHYSICS

### ➤ Effects of Current

Electric current, potential difference and electric current. Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R.

### ➤ Magnetic effects of current

Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule, Direct current. Alternating current: frequency of AC. Advantage of AC over DC. Domestic electric circuits.

### ➤ Light - Reflection and Refraction

Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula, magnification.

Refraction; Laws of refraction, refractive index. Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula; Magnification. Power of a lens.

## ➤ **Human Eye and The colourful world**

Functioning of a lens in human eye, defects of vision and their corrections by using a spherical lens.

Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life.

---

## **CHEMISTRY**

### **1. Chemical reactions and equations**

- Chemical equation,
- Balanced chemical equation,
- Implications of a balanced chemical equation,
- Types of chemical reactions:
  - a) Combination,
  - b) Decomposition,
  - c) Displacement,
  - d) Double displacement,
  - e) Precipitation,
  - f) Neutralization,
  - g) Oxidation and reduction.

### **2. Acids, Bases and Salts**

- Their definitions in terms of furnishing of  $H^+$  and  $OH^-$  ions,
- General properties, examples and uses, concept of pH scale (Definition relating to logarithm not required),
- Importance of pH in everyday life;
- Preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris.

### **3. Metals and non-metals**

- Properties of metals and non-metals (Physical and chemical)
- Reactivity series;
- Formation and properties of ionic compound.

### **4. Carbon and its compound**

- Naming of carbon compound
  - Chemical Reaction (Addition, Oxidation, Substitution)
- 

## **ENGLISH**

### **1. READING COMPREHENSION PASSAGES**

### **2. GRAMMAR**

- Determiners
- Tenses
- Transformation of Sentences (Affirmative, Negative, Assertive, Interrogative,
- Exclamatory, Imperative, Simple, Complex, Compound, Do as Directed)

### **3. WRITING SKILL/CREATIVE WRITING**

- Letter to the Editor (120-150 words)
  - Long Composition (Paragraph Writing-Narrative/Descriptive/Discursive-150-200 words)
-