



## **NOTIFICATION FOR JOINT DAKSHANA SELECTION TEST (JDST) 2020**

**JDST 2020 (for July 2020 intake) is scheduled to be held on Sunday, December 08, 2019.**

The JDST will be held at various test centres in your state. The centre in a city closest to your home will be allotted to you.

### **You are eligible to apply for JDST 2020, if:**

- You are studying in Class 12 Science (Academic Year 2019-2020) in a school run by the government.
- You have scored more than 70%/7GPA in Class 10 Board Examination.
- Your family gross annual income is less than INR 1,80,000/-.

### **JDST 2020 Format:**

- The JDST will be of 3-hour duration and divided in four parts – Part 1: Mathematics/Biology; Part 2: Logical Reasoning; Part 3: Physics and Part 4: Chemistry.
- The test is in Multiple Choice Question format consisting of 25 questions in each part.
- The test is conducted in English & Hindi.
- Answers are to be marked with HB pencil on OMR sheets. OMR sheets will be provided by Dakshana Foundation.
- Each right answer is awarded 3 marks and 1 mark is deducted for each wrong answer.
- No calculators are allowed.

### **JDST 2020 Syllabus:**

#### **Biology:**

**Reproduction:** Reproduction in Organisms, Sexual Reproduction in Flowering Plants, Human Reproduction, Reproductive Health

**Genetics & Evolution:** Principles of Inheritance and Variation, Molecular Basis of Inheritance, Evolution

**Biology in Human welfare:** Human Health and Disease, Strategies for Enhancement in Food Production, Microbes in Human Welfare

**Biotechnology:** Biotechnology - Principles and Processes, Biotechnology and its Applications

**Ecology:** Organisms and Populations, Ecosystem, Biodiversity and Conservation, Environmental Issues

## Chemistry:

**Physical Chemistry:** Solid State, Solution & Colligative Properties, Electrochemistry, Chemical Kinetics, Surface Chemistry

**Inorganic Chemistry:** General Principles and process of Isolation of elements, P-Block elements, D & F-Block elements, Co-ordination Compound

**Organic Chemistry:** Haloalkanes and Haloarenes, Alcohol, Phenol, Ether, Aldehyde, Ketones and Carboxylic Acids, Amines, Biomolecules, Polymer, Chemistry in Everyday Life

## Physics:

**Electricity & Magnetism:** Electric charges & fields, Electrostatic potential, Capacitance, Current Electricity, Moving charges & Mechanism, Magnetism & Matter, Electromagnetic Induction, Alternating Current, Electromagnetic waves

**Optics & Modern Physics:** Ray Optics, Optical Instrument, Wave Optics, Dual nature of Radiation & Matter, Atoms, Nuclei,

**Electronics:** Semiconductor, Communication System

## Mathematics:

**Algebra:** Matrices, Determinants, Relations and Functions, Probability

**Differential Calculus:** Continuity and Differentiability, Application of Derivatives

**Integral Calculus:** Indefinite & Definite Integration and its Properties, Application of Integration, Differential Equation

**Miscellaneous:** Inverse Trigonometric Function, Vector, 3-D Geometry

## Logical Reasoning:

This section will consist of verbal and non-verbal questions.

## Tips to prepare for JDST 2020

1. Please read NCERT textbooks of Class 12 thoroughly.
2. Questions asked in the JDST will be slightly more difficult than what appears in your school examinations. You may refer to any book which provides objective-type questions on the NCERT syllabus for additional practice.

All clarifications related to the JDST will be addressed on email ONLY. If you have any queries, please email to [jdst@dakshana.org](mailto:jdst@dakshana.org).