

# National Olympiad Programme

## Leading to participation in International Olympiads

### I. PHYSICS, CHEMISTRY, BIOLOGY & ASTRONOMY

Organized by Indian Association of Physics Teachers (IAPT) with support from Indian Association of Chemistry Teachers (IACT) and the Indian Association of Teachers in Biological Sciences (IATBS).

#### Stage I – National Standard Examination (NSE)

##### National Standard Examination in Physics (NSEP)

**Part A:** 50 multiple choice questions consisting of A1 – 40 questions, each with only one of the four options correct, and A2 – 10 questions, each with any number of the four options correct (all correct options to be marked to get credit).

**Part B:** 5-6 short answer type questions or problems.

##### National Standard Examination in Chemistry (NSEC)

The question paper consists of 80 multiple choice questions, each with only one of the four options correct.

**Language:** English

##### National Standard Examination in Biology (NSEB)

The question paper consists of 80 multiple choice questions, each with only one of the four options correct.

**Language:** English

##### National Standard Examination in Astronomy (NSEA)

The question paper will consist of 80 multiple choice questions, each with only one of the four options correct.

**Language:** English

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**To Enroll for NSEs:** If your school / college is a registered centre enroll your name by paying the required fee. The School / college principal and/or head of department will give you all necessary instructions pertaining to NSEs. If your school/college is not a registered center, visit the website:

<http://www.iapt.org.in>

or contact at:

**E-mail:** [iapt@vsnl.net](mailto:iapt@vsnl.net)

**E-mail:** [rmdharkar@gmail.com](mailto:rmdharkar@gmail.com)

**Syllabus:** The syllabus for NSEs is broadly equivalent to the senior secondary level (Class XI and Class XII) of CBSE. For junior level astronomy, the syllabus is broadly equivalent to secondary school level (Class X) of BSE. This is only a rough guideline and there is no detailed syllabus given for NSEs.

### **Stage II - Indian National Olympiads in Physics, Chemistry, Biology and Astronomy.**

**Eligibility:** The top 250-300 students are selected, for each subject, on the basis of their national ranking in NSEs and qualify to appear for the Indian National Olympiad Examinations.

### **Stage III – Orientation cum selection Camps (OCSC)**

Top 35 students are selected for each subject and invited for the Orientation cum selection Camps at HBCSE.

### **Stage IV – Training of Indian teams for International Olympiads at HBCSE**

Top 4-5 students in OCSC Merit List are selected for rigorous training programme at HBCSE. Resource persons from HBCSE and different institutions across the country train the students.

### **Stage V – Participation in International Olympiads**

Students selected to represent India at the International Olympiads are eligible for prestigious scholarships of the Govt. of India for pursuing higher studies and research in science disciplines

## **II. MATHEMATICS**

Organized by Homi Bhabha Centre for Science Education (HBCSE), a National Centre of Tata Institute of Fundamental Research (TIFR), Mumbai.

**Eligibility:** Students of Class VIII, IX, X, XI or XII

**Stage I** Regional Mathematical Olympiad (RMO)

**Language:** English

**Stage II** Indian National Mathematical Olympiad (INMO)

**Stage III** International Mathematical Olympiad Training Camp (IMOTC)

**Stage IV** Pre-departure Training Camp for IMO

**Stage V** International Mathematical Olympiad (IMO)

For further info visit the website: <http://olympiads.hbcse.tifr.res.in>