

VIDYARTHI VIGYAN MANTHAN (VVM) 2022-23 Evaluation Scheme for National Level Camp (NLC)

The final component of the evaluation of Vidarthi Vigyan Manthan (VVM) after the State Level Camp (SLC) is National Level Camp (NLC). We are happy to inform you that we will conduct National Level Camp on May 20-21, 2023, at IISER Thiruvananthapuram, Kerala. All the selected students for NLC have successfully cleared the first and second rounds and demonstrated their excellence in both examinations. The Team VVM congratulates all the successful candidates for their success.

The National Level Camp will be conducted physically in TWO days. The NLC will start at 9:00 AM on May 20, 2023, and the Himalayans and Zonal winners will be declared on May 21, 2023, by 6:00 PM. The program will start with registration, followed by the inauguration and will end with a valedictory and winner declaration function. There is only one National Level Camp for all the selected students. The National Level Camp will provide an opportunity to students to showcase their talent under the following Groups of activities.

Students will be required to reach IISER Thiruvananthapuram, Kerala latest, by the Morning (before 08:00 AM) of Saturday, May 20, 2023. They can plan to return in the evening (after 06:00 pm) of Sunday, May 21, 2023. For the remaining guidelines and the conduct of the camp, also check the other attachments.

All the questions in science and math will be based on the NCERT curriculum for the respective group. The students will be divided into two groups viz. Junior Group (Class VI, VII, and VIII) and Senior Group (Class IX, X, and XI). There will be separate papers for Junior and Senior groups.

The NLC will have the components as given in the table:

S. N.	Component/Sections	Duration	Weightage
1	A. Application-Oriented Scholastic Aptitude Test (AOSAT): A thought-provoking, situation-based problem of science and Mathematics based on the NCERT syllabus	50 minutes	10% (10 Marks)
	B. Indian Contribution and Advancement in Science and Technology (ICAST): The topic for Junior Group: (1) Millets – Important Component in Our Diet (2) Maritime (Naval) History of India The topic for Senior Group: (1) Indian Textile Industry (2) Temple Architecture in India ❖ Students need to read more detail about these topics from their suggestive materials given in the Annexure-I.	20 minutes	20% (20 Marks)
	C. Personal Interaction: The topics for the junior group are 1) “Ecotourism in Indian Context” & 2) “Pharmacy in Our Kitchen” and for the senior group are 1) “Robotics in India” & 2) “Antimicrobial Resistance.” For more details please refer to Annexure-I.	5 – 7 min	15 % (15 Marks)

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S. N.	Component/Sections	Duration	Weightage
2	Experimental Skill Test (EST): in Physics, Chemistry, Biology and Math, based on academic knowledge of NCERT of the respective class.	50 minutes for each subject	40% (40 Marks)
3	Creativity: The topic will be given on the spot to make a mind map about the same. The broad area has been given in the Annexure-II.	30 minutes	5 % (5 Marks)
4	Out-of-Box Activity: Students will have to complete two different activities in the stipulated time.	50 minutes	10 % (10 Marks)

1. Application Oriented Scholastic Aptitude Test (AOSAT) and Indian Contribution and Advancements in Science and Technology (ICAST)

It will be a paper-pen examination conducted in THREE parts. Details of the examination will be as follows

- (i) **Questions on the subject (10%):** There will be two thought-provoking, situation-based problems from the application of Science and Mathematics. The problem will be based on the NCERT curriculum of the respective classes.
- (ii) **Indian Contribution and Advancements in Science and Technology (ICAST) (20%):** This year, the topic for the junior group will be “Millets – Important component in our diet” and “Maritime (Naval) history of India” and for the senior group the topic will be “Indian textile industry” and “Temple architecture in India”.
- (iii) **Personal Interaction (15%):** A 5-7 min personal interaction will be conducted under ICAST to understand the personality of students. The topic for the Junior Group is: “Pharmacy in our kitchen”, and for the Senior Group, it is: “Robotics in India” and “Antimicrobial resistance”.

2. Experimental Skill Test (EST) in Physics, Chemistry, Biology and Math

Hands-on Physics, Chemistry, Biology and Math experiments will be given as individual activities. Students need to perform the activity and do all necessary calculations/graph plotting within 50 minutes in each subject.

For 11th class students, the weightage of Math or Biology will be doubled, and they will have to attempt only one of them, depending on their choice.

3. **Creativity:** Broad topics for expressing the creativity of students are given in Annexure-II. The final topic to make a mind map will be given during the final exam. A total of 30 minutes will be given to express their views.


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4. **Out-of-Box Activities:** Two on-the-spot activities, namely i) 2D or 3D Physical puzzle and ii) writing uses of an everyday object, will be given during the examination. During the first activity, students will have to solve a puzzle within the stipulated time and then put it back in the initial state. The students will have to answer questions on the logic or strategy used in solving the puzzle. While in the second activity, an everyday object will be given for which the students have to list out 5 or more uses which are different from its actual (normal) use (For example - A pencil is used for writing. It may be used as: Dart, for piercing, as a stirrer, etc.). The total time allotted for these activities is 50 minutes.

As mentioned, there are four sections of the evaluation. The ICAST test will be conducted just after the inauguration. There will be two evaluation sessions (4 hours each) in addition to the ICAST test. In one of the 4-hours sessions, the Experimental Skill Test (EST) will be conducted, while all other components will be conducted in another 4-hours session. A detailed evaluation schedule will be given during registration on May 20, 2023.

Maximum marks of NLC will be 100. Out of these, 45 marks will be given to AOSAT, ICAST and Personal Interaction, 40 marks to EST, 5 marks to Creativity, and 10 marks to Out-of-Box Activity.

The result of the National Level Examination, i.e., Himalayans, and the list of Zonal winners will be announced on the 2nd day of the camp i.e., May 21, 2023.


Dr. Brajesh Pandey
Controller of Examination


Dr. Prashant Kodgire
National Convener


Dr. Arvind C Ranade
National Convener General