

VIDYARTHI VIGYAN MANTHAN 2022-23
NATIONAL LEVEL CAMP EXAMINATION (20-21 MAY, 2023)
INDIAN INSTITUTES OF SCIENCE EDUCATION AND RESEARCH THIRUVANANTHAPURAM

Annexure-I

JUNIOR GROUP (CLASS VI, VII & VIII)

Indian Contributions and Advancement in Science and Technology (ICAST):

- | | | |
|------|------------------------------------|----------|
| (i) | Multiple choice questions (MCQ's): | 20 Marks |
| (ii) | Personal Interaction: | 15 Marks |

Details of the Topics and their scope are as follows:

Topics For MCQs (20 Questions – 1 Mark Each)		
No.	Topics	Scope of the Topics
1	Millets – An important component in our diet	<ul style="list-style-type: none"> What are millets? What is their importance in diet? The types of millets grown in India. Indigenous varieties. Economic advantages Challenges in growing millets
2	Maritime (Naval) history of India	<ul style="list-style-type: none"> Mention in vedic literature (the proven oldest literature in the world) Knowledge of seafaring Route finding by position of planets and stars Countries visited by Indian seafarers for trade Ship building science in ancient India Ports in India, examples from Saraswati Sindhu civilization

Topics For Personal Interaction (15 Marks)		
No.	Topics	Scope of the Topics
1	Ecotourism in the Indian Context	<ul style="list-style-type: none"> Definition, concept, and content of ecotourism Possible areas that can support ecotourism – for e.g. world heritage sites (Cultural and natural) Protected areas such as national parks and wildlife sanctuaries, sites of community conserved areas of importance – e.g. turtle nesting beaches protected by communities, agro-forestry based sites, hills and mountains Types of ecotourism – agrotourism, wildlife tourism, low impact accommodation and sustainable minimalist living experiences, community-based tourism for benefits to the local communities Advantages of ecotourism Negative impacts of ecotourism
2	Pharmacy in Our Kitchen	<ul style="list-style-type: none"> Use of several spices and herbs for medicinal purposes. Spices to increase our immunity and cure certain acute and chronic diseases Nutritive values and medical benefits of vegetables and fruits.

VIDYARTHI VIGYAN MANTHAN 2022-23
NATIONAL LEVEL CAMP EXAMINATION (20-21 MAY, 2023)
INDIAN INSTITUTES OF SCIENCE EDUCATION AND RESEARCH THIRUVANANTHAPURAM

Topics For Personal Interaction (15 Marks)		
No.	Topics	Scope of the Topics
		<ul style="list-style-type: none">• Use of spices, herbs, vegetables and fruits as a traditional medicines according to Ayurveda, Unani, etc.• Properties of bioactive constituents in spices, herbs, vegetables and fruits such as anti-inflammatory, anti-carcinogenic or antioxidants, lower glucose or cholesterol level, or ability to affect cognition and mood.• Traditional treatments or practices using substances in the kitchen.

Suggestive References:

Students can refer following links for the preparation. However, these are just the sample links. Students should also refer other web sites and reference material like books, periodicals and Science articles related to the topics.

For the topic Millets – Important component in our diet

- <https://static.pib.gov.in/WriteReadData/specificdocs/documents/2022/feb/doc202222418701.pdf>
- <https://pminewyork.gov.in/MilletYear2023>
- <https://www.icrisat.org/tag/international-year-of-millets/>

For the topic Maritime (Naval) history of India

- http://www.maritimetraining.in/documents/Indias_Maritime_heritage.pdf
- <https://www.joinindiannavy.gov.in/en/about-us/maritime-heritage.html>

For the topic Ecotourism in Indian context

- International Ecotourism Society (<https://ecotourism.org/>)
- National Strategy for Ecotourism in India <https://tourism.gov.in/sites/default/files/2022-09/National%20Strategy%20for%20Ecotourism%202022.pdf>

For the topic Pharmacy in our kitchen

- <http://www.indianspices.com/spices-development/properties/medicinal-other-values-spices.html>
- <http://www.indianspices.com/sites/default/files/medicinal%20other%20values%20spices.pdf>
- https://dirhorti.assam.gov.in/sites/default/files/swf_utility_folder/departments/horticulture_medhassu_in_oid_5/portlet/level_1/files/Health%20benefit%20of%20fruits%20%26%20vegetable.pdf
- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5750606/>

VIDYARTHI VIGYAN MANTHAN 2022-23
NATIONAL LEVEL CAMP EXAMINATION (20-21 MAY, 2023)
INDIAN INSTITUTES OF SCIENCE EDUCATION AND RESEARCH THIRUVANANTHAPURAM

Annexure-I

SENIOR GROUP (CLASS IX, X & XI)

Indian Contributions and Advancement in Science and Technology (ICAST):

- | | | |
|------|------------------------------------|----------|
| (i) | Multiple choice questions (MCQ's): | 20 Marks |
| (ii) | Personal Interaction: | 15 Marks |

Details of the Topics and their scope are as follows:

Topics For MCQs (20 Questions - 1 Mark Each)		
No.	Topics	Scope of the Topics
1	Indian Textile Industry	<ul style="list-style-type: none"> Different types of Indian textiles and their specialities Region wise special textiles in different parts of the country India as a sole exporter of different textiles in rest of the world
2	Temple Architecture in India	<ul style="list-style-type: none"> Temples in carved caves, Temples carved out of single rock, Temples built from stones. Different parts of the temple and constructions methodology Different styles like Nagara, Dravidian, Vesara, Buddhist, Gandhar, Hemadpanti, etc. Different material used in making of Idols of deities

Topics For Personal Interaction (15 Marks)		
No.	Topics	Scope of the Topics
1	Robotics in India	<ul style="list-style-type: none"> Multidisciplinary nature of robotics Robotic activities and its potential Future of robotics in India Challenges in front of us in the field of robotics Research and Training Institutes of Robotics in India
2	Antimicrobial Resistance	<ul style="list-style-type: none"> What is Antimicrobial resistance (AMR or AR) Effect of increasingly impenetrable armour of antimicrobial resistance, Effects of overuse of antimicrobials for the purpose other than medical requirements. Prevention and treatment of an ever-increasing range of infections caused by bacteria, parasites, viruses and fungi. Household overuse of antibacterial cleaning products and its effects.

Suggestive References:

Students can refer following links for the preparation. However, these are just the sample links. Students should also refer other web sites and reference material like books, periodicals and Science articles related to the topics.

VIDYARTHI VIGYAN MANTHAN 2022-23
NATIONAL LEVEL CAMP EXAMINATION (20-21 MAY, 2023)
INDIAN INSTITUTES OF SCIENCE EDUCATION AND RESEARCH THIRUVANANTHAPURAM

For the topic Indian textile industry

- https://cbseacademic.nic.in/web_material/Curriculum/Vocational/2018/Traditional%20Indian%20Textiles%20XII_777.pdf
- <https://ncert.nic.in/textbook/pdf/kehc108.pdf>

For the topic Temple architecture in India

- <https://ncert.nic.in/textbook/pdf/kefa106.pdf>
- <http://ccrtindia.gov.in/temple-architecture/>

For the topic Robotics in India

- <https://indianinstituteofrobotics.co.in/>
- <https://www.drdo.gov.in/labs-and-establishments/centre-artificial-intelligence-robotics-cair#nolink>
- <https://nielit.gov.in/aurangabad/content/short-term-course-robotic-process-automation>

For the topic Antimicrobial resistance

- <https://www.who.int/news-room/fact-sheets/detail/antimicrobial-resistance>
- [https://www.who.int/publications/m/item/india-national-action-plan-on-antimicrobial-resistance-\(nap-amr\)-2017-2021](https://www.who.int/publications/m/item/india-national-action-plan-on-antimicrobial-resistance-(nap-amr)-2017-2021)

