

# VIDYARTHI VIGYAN MANTHAN (VVM) 2021-22 (NLC)

## INDIAN CONTRIBUTION AND ADVANCEMENT IN SCIENCE AND TECHNOLOGY (ICAST)

### SENIOR GROUP (CLASS IX, X, XI)

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	International Year of Millets	What are millets? What is their importance in diet? The types of millets grown in India. Indigenous varieties. Economic advantages.
2	Artificial Intelligence AI Technology : Indian Perspective	Concept of AI and machine learning, Growth and development in India, How AI can help to solve issues in our country, various start-ups and case studies in the field of AI, Futuristic approach towards AI applications.

Topics For Personal Interaction (15 Marks)		
No.	Topics	Scope of the Topics
1	Concept of time and Calendar systems	Concept of time and time measurement, Ancient instruments and devices used for time measurement, Concept of calendar system, Rashtriya Panchang, Indian National Solar Calendar and its characteristics, Astronomical basis, Comparison of Indian National Calendar with other calendars.
2	Patanjali Yog Sutra	First four sutras of asthanga sutra. Yam, Niyam, Asana and Pranayam. Central idea, Procedure, Benefits and precautions

### **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.

1. <https://static.pib.gov.in/WriteReadData/specificdocs/documents/2022/feb/doc202222418701.pdf>
2. <https://pminewyork.gov.in/MilletYear2023>
3. <https://www.fao.org/new-york/events/detail/en/c/1473311/#:~:text=Join%20us%2C%20as%20we%20commemorate,the%20International%20Year%20of%20Millets.>
4. <https://www.icrisat.org/tag/international-year-of-millets/>
5. <https://indiaai.gov.in/>
6. <https://www.meity.gov.in/writereaddata/files/75-75-India-AI-Journey.pdf>
7. <https://nasscom.in/publications-tags/artificial-intelligence>
8. <https://vigyanprasar.gov.in/science-on-radio/radio-serial-welcome-tomorrow-english-aane-wala-kal-hindi/>
9. <https://www.indiascienceandtechnology.gov.in/sites/default/files/AI%20Trend%20story.pdf>
10. <https://www.imsc.res.in/~rahul/articles/calendar.html>
11. [https://en.wikipedia.org/wiki/Hindu\\_calendar](https://en.wikipedia.org/wiki/Hindu_calendar)

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12. <https://www.csir.res.in/saga-indian-calendar-and-ist#:~:text=Meghnad%20Saha%20felt%20the%20need,Government%20naturally%20turned%20to%20CSIR.>
13. <https://yoga.ayush.gov.in/blog?q=61>
14. <https://www.mea.gov.in/search-result.htm?25096/Yoga: su origen, historia y desarrollo>
15. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3705676/>

