

**VIDYARTHI VIGYAN MANTHAN (VVM) 2023-24**  
**Evaluation Scheme for State Level Camp (SLC)**

*Annexure - A*

**Indian Contributions and Advancement in Science & Technology (ICAST)**  
**Topics and their Scope**

**Junior Group (Class VI, VII & VIII)**

**Topic 1: Chandrayaan 3 Lunar Mission**

Chandrayaan-3 is the third mission in the Chandrayaan programme of ISRO. Our scientists succeeded in the soft landing of Vikram Lander on the surface of the moon and India became the first country in the world to do a soft landing near the south pole of the moon.

**Topic 2: Santiniketan, West Bengal**

Rabindranath Tagore's "abode of peace" Santiniketan, which embodies the poet's vision of a place of learning that transcends religious and regional boundaries, was officially recognized as a UNESCO World Heritage Site at the 45th session of the World Heritage Committee held in Riyadh in September 2023. India boasts 6th rank amongst the top 10 countries with most UNESCO world heritage sites!

Topics For MCQs		
Sl. No.	Topics	Scope of the Topics
1	Chandrayaan 3 Lunar Mission (12 MCQs) in ICS section for Junior Group.	<ul style="list-style-type: none"><li>Objectives of the mission</li><li>Structure of Chandrayaan -3</li><li>Payloads on Chandrayaan -3 and their functions</li><li>Launching of Chandrayaan - 3</li><li>Landing of Vikram Lander on the surface of the moon</li><li>Features and working of Pragyan Rover</li><li>Outcome of Mission Chandrayaan - 3</li></ul>
2	Santiniketan, West Bengal, listed on UNESCO World Heritage Site (8 MCQs) for Junior Level in ICS section	<ul style="list-style-type: none"><li>Understanding World Heritage: Purpose &amp; Importance</li><li>Categories, Criteria, and process for selection</li><li>Santiniketan: Norms under which it was selected</li><li>Brief history and importance</li></ul>

**Suggestive References:**

Students can refer to the following links for the preparation keeping the scope of the topics in mind. However, these are just a few suggested links. Students should also refer to other websites and reference material like books, periodicals, and Science articles related to the topics.

**Chandrayaan 3 Lunar Mission**

- [https://www.isro.gov.in/Making\\_Chandrayaan3\\_ISRO\\_culture.html](https://www.isro.gov.in/Making_Chandrayaan3_ISRO_culture.html)
- [https://www.isro.gov.in/Chandrayaan3\\_Details.html](https://www.isro.gov.in/Chandrayaan3_Details.html)

**Santiniketan, West Bengal**

- <https://youtu.be/lOzxUVCCSug>
- <https://whc.unesco.org/en/criteria/>
- <https://whc.unesco.org/en/emblem/>
- <https://asi.nic.in/world-heritage-sites/>
- <https://whc.unesco.org/document/186520>
- <https://whc.unesco.org/document/186519>

## Senior Group (Class IX, X & XI)

### Topic 1: Aditya-L1 Solar Mission

Aditya-L1 Mission is being carried out by the ISRO scientists to study the solar atmosphere, solar magnetic storms, and their impact on the environment around the Earth. It is the first Indian mission dedicated to observing the Sun. Aditya-L1 spacecraft is orbiting at about 1.5 million km from Earth in a halo orbit around the L1 Lagrange point between the Earth and the Sun.

### Topic 2: Sacred Ensembles of the Hoysalas

The beautiful 13<sup>th</sup>-century temples of the Hoysala dynasty of Belur, Halebid, and Somnathapura in Karnataka, have been included in the World Heritage list of UNESCO at the 45th session of the World Heritage Committee held in Riyadh in September 2023. India boasts 6<sup>th</sup> rank amongst the top 10 countries with most UNESCO world heritage sites!

Topics For MCQs		
Sl. No.	Topics	Scope of the Topics
1	Aditya-L1 Solar Mission (12 MCQs) for Senior Level in ICS section	<ul style="list-style-type: none"><li>• Objectives of the mission</li><li>• Structure of Aditya-L1 spacecraft</li><li>• Payloads on Aditya-L1 and their functions</li><li>• Launching of Aditya-L1</li><li>• Outcome of Aditya-L1 Mission</li></ul>
2	Sacred Ensembles of the Hoysalas listed on UNESCO World Heritage Site (8 MCQs) for Senior Level in ICS section	<ul style="list-style-type: none"><li>• Understanding World Heritage: Purpose and Importance</li><li>• Categories, Criteria, and process for selection</li><li>• Sacred Ensembles of the Hoysalas: why they were selected?</li><li>• Brief history and special features.</li><li>• Conservation.</li></ul>

### Suggestive References:

Students can refer following links for the preparation keeping the scope of the topics in mind. However, these are just a few suggested links. Students should also refer to other websites and reference material like books, periodicals, and Science articles related to the topics.

### Aditya-L1 Solar Mission

1. [https://www.isro.gov.in/Aditya\\_L1.html](https://www.isro.gov.in/Aditya_L1.html)
2. [https://www.isro.gov.in/Aditya\\_L1-MissionDetails.html](https://www.isro.gov.in/Aditya_L1-MissionDetails.html)
3. [https://www.isro.gov.in/media\\_isro/pdf/AdityaL1\\_Mission\\_Brochure.pdf](https://www.isro.gov.in/media_isro/pdf/AdityaL1_Mission_Brochure.pdf)
4. [https://www.isro.gov.in/media\\_isro/pdf/Aditya\\_L1\\_second\\_booklet.pdf](https://www.isro.gov.in/media_isro/pdf/Aditya_L1_second_booklet.pdf)

### Sacred Ensembles of the Hoysalas

1. <https://youtu.be/lOzxUVCCSug>
2. <https://whc.unesco.org/en/criteria/>
3. <https://whc.unesco.org/en/emblem/>
4. <https://asi.nic.in/world-heritage-sites/>
5. <https://whc.unesco.org/document/192644>
6. <https://whc.unesco.org/document/192643>