

Syllabus for Heliodyyssey 2019

Syllabus for Space HeliOdyssey Test 2019 is divided into two groups i.e. Group 1 for 6th to 8th and Group 2 for 9th to 12th. Level of questions for category 1 (6th to 8th) will be of class 3rd to 5th and for category 2 (9th to 12th) questions will be of class 6th to 8th level.

❖ For classes Class 6th to 8th

- **General Science***
 - Food, Shelter, Animals, Water, Travel, Plants, and Birds.
- **General Maths***
 - Shapes, number sequence, numbers and operations, mental arithmetic, fractional numbers, money, measurements, data handling, and patterns.
- **General Knowledge**
 - Current affairs related to astronomy and space science, important dates in space exploration and astronomy.
- **Geography**
 - Latitudes and longitudes, Rocks and soil, Formation of Earth, Motion of earth etc.
- **Astronomy and Space Science**
 - Solar System, Names and Distances
 - Basic Astronomical Facts
 - Structure of Sun
 - Sun's apparent motion in the sky
 - Eclipses, geometry of earth, sun and moon.
 - Sun, characteristics, solar energy etc.
 - Directions and their basic understanding
 - Living in Space
 - Galaxies
 - Comets, Asteroids & Meteors

- Constellations, galaxies, nebulae and their classification (structure and composition)
- Basics of night sky observation
Myth Busting

Famous Astronomers and Astronauts: Neil Armstrong, Kalpana Chawla, Sunita Williams, Yuri Gagarin, Galileo Galilei, Edwin Hubble, Issac Newton, Albert Einstein, and Charles Messier.

Note: In case of Famous Astronomers and Astronauts, questions will be related to the names given in list only.

* For detailed syllabus of General Science and Mathematics, refer to Syllabus prescribed for Environmental Studies and Maths by NCERT for class 3rd to 5th. Syllabus of NCERT can be downloaded from: http://www.ncert.nic.in/rightside/links/pdf/syllabus/vol1_el.zip

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❖ For classes Class 9th to 12th

- **General Science****
 - Food, materials, plants, animals, moving things, electric current, circuits, magnets, natural phenomena, natural resources, force, friction, pressure, sound, light, pollution and earthquakes.
- **General Maths****
 - Number system, rational numbers, fractions, powers, integers, algebra, ratio, proportions, geometry, mensuration, data handling, and graphs.
- **General Knowledge**
 - Current affairs related to astronomy and space science, important dates in space exploration and astronomy
- **Geography**
 - India – Size and Location, Physical Features of India – Relief, Structure, Major Physiographic Unit, Drainage – Major Rivers and Tributaries, Lakes, Seasons, Soil and its classification, Major crops and Cropping Pattern, Minerals, Conventional and Non-Conventional Energy Resources

- **Astronomy and Space Science**
 - Solar System, Names and Distances
 - Astronomical Facts
 - Structure of Sun
 - Sun's apparent motion in the sky
 - Eclipses, geometry of earth, sun and moon.
 - Sun, its formation, characteristics, solar energy etc.
 - Life cycle of stars
 - Directions, Conventions and their basic understanding
 - Coordinate systems in Astronomy
 - Time and idea of time keeping.
 - Galaxies
 - Comets, Asteroids & Meteors
 - Important Discoveries and Invention
 - Instruments and astronomical accessories
 - Constellations, galaxies, nebulae and their classification (structure and composition)
 - Basic of night sky observation
 - Birth and evolution of Universe
 - Myth Busting

- **Space Missions and ISS**
 - Read about the main missions launched by space agencies like ISRO, NASA, ESA, JAXA etc. Include rocket launches, shuttle missions, planetary missions, lunar missions, space telescope missions, missions to Moons of other planets, and missions beyond the solar system.

- **Astronomers and Astronauts**
 - Neil Armstrong, Kalpana Chawla, Sunita Williams, Yuri Gagarin, Galileo Galilei, Sallyride, Nicolaus Copernicus, Ptolemy, Edwin Hubble, Issac Newton, Albert Einstein, Charles Messier, Subrahmanyan Chandrasekhar, Johannes Kepler, Tycho Brahe, Christiaan Huygens, William Herschel, Stephan Hawking, Vainu Bappu.

Note: In case of Famous Astronomers and Astronauts, questions will be related to the names given in list only.

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