

International Science Olympiad (ISO)	International Maths Olympiad (IMO)
English International Olympiad (EIO)	General Knowledge International Olympiad (GKIO)
International Computer Olympiad (ICO)	International Drawing Olympiad (IDO)
National Essay Olympiad (NESO)	National Social Studies Olympiad (NSSO)
National Hindi Olympiad (NHO)	National Logical Reasoning Olympiad (NLRO)
Abacus Olympiad (AO)	Astronomy Space Olympiad (ASO)

Total Questions : 50

Time : 65 min



PATTERN & MARKING SCHEME

Section	Subjective	HOT'S (High Order Thinking Section)
No. of Questions	45	5
Marks per Ques.	1	1

SYLLABUS

Section - 1 : Celestial Bodies, Sun, Planetary Characteristics, Moon, Earth's Motions, Latitudes and Longitudes, Universe, Life Cycle of Stars, Satellites and Space Missions, Night Sky Observation (constellations, Pole Star, eclipses).

Section - 2 : High Order Thinking Section - Syllabus as per Section 1

Astronomy Space

- Which of the following is a celestial body that emits its own heat and light?
 - Planet
 - Satellite
 - Star
 - Asteroid
- The Sun is primarily made up of two gases, _____ and _____.
 - Oxygen and Nitrogen
 - Carbon Dioxide and Methane
 - Hydrogen and Helium
 - Ozone and Argon
- All planets in our Solar System follow a specific type of path as they revolve around the Sun. What is the shape of these orbits?



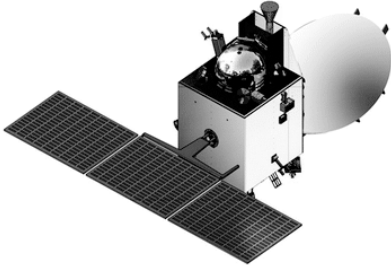
- Perfectly circular
- Square
- Rectangular
- Elongated

- The Frigid Zone lies near:



- The Poles
- The Equator
- The Tropic of Cancer
- The Tropic of Capricorn

05. Venus is often referred to as "Earth's Twin" by astronomers. What is the primary reason for this comparison?
- It has the same atmosphere as Earth.
 - It rotates in the same direction as Earth.
 - It is very similar to Earth in size and shape.
 - It has a moon that looks like Earth's moon.
06. What is the beginning stage of a star's life cycle, often called a "nursery" of stars?
- Red Giant
 - White Dwarf
 - Nebula
 - Supernova
07. Which Indian space mission was designed to orbit and study Mars?



- Chandrayaan-1
 - Mangalyaan
 - Gaganyaan
 - Aditya-L1
08. What is the primary purpose of a communication satellite?
- To take pictures of distant galaxies.
 - To study the soil on Mars.
 - To transmit television, radio, and telephone signals.
 - To provide oxygen to astronauts in space.

High Order Thinking Section

09. Read the given statements carefully and choose the correct option regarding it:
- Statement 1:** A lunar eclipse occurs when the Moon comes between the Sun and the Earth, casting a shadow on the Earth.
- Statement 2:** Ancient people used the Pole Star to determine directions during the night because it remains in a fixed position.
- Statement 1 is correct; Statement 2 is incorrect.
 - Statement 1 is incorrect; Statement 2 is correct.
 - Both Statement 1 and Statement 2 are correct.
 - Both Statement 1 and Statement 2 are incorrect.
10. Choose the Correct matching sequence:

Constellation	Description
1. Ursa Major	A. Known as 'The Hunter' with a famous belt.
2. Orion	B. Shaped like the letter 'W' or 'M'.
3. Cassiopeia	C. Contains the 'Big Dipper' or 'Saptarishi'.
4. Leo	D. Resembles a majestic Lion in the sky.

- 1-C, 2-A, 3-B, 4-D
- 1-A, 2-C, 3-D, 4-B
- 1-B, 2-D, 3-A, 4-C
- 1-D, 2-B, 3-C, 4-A

ANSWER KEY: 1-c, 2-c, 3-d, 4-a, 5-c, 6-c, 7-b, 8-c, 9-b, 10-a