

IASBABA TEST 31 ENVIRONMENT AND SCIENCE TECH

51. Consider the following statements

1. Satellites are at their maximum speeds at the apogee point.
2. Satellites are nearest to the earth at its apogee point.
3. The centripetal force due to revolution of a satellite around the earth, balances out the earth's gravitational pull.

Choose the correct statements using the codes given below

- a) 2 and 3 only b) 1 and 3 only c) All of the above d) None of the above

52. Consider the following statements regarding Polar satellite launch vehicle (PSLV)

1. PSLV has four stages using solid and liquid propulsion systems alternately.
2. It is the third generation launch vehicle after ASLV and GSLV.
3. PSLV is capable of launching 1750 kg satellites in 600 km Sun-synchronous Polar Orbit and 1425 kg satellite in Geo-synchronous Transfer Orbit (GTO).

Choose the correct statements using the codes given below

- a) 1 and 3 only b) 1 and 2 only c) 2 and 3 only d) All of the above

53. 'JUNO' mission of NASA aims to study –

- a) Mars b) Uranus c) Venus d) Jupiter

54. Consider the following statements

1. Parking orbits help manned space missions to recheck the systems before moving into the desired orbit.
2. Hofmann transfer orbit used to break out of the parking orbit and break into the geosynchronous or geostationary orbit.

Choose the correct statement/s using the codes given below

- a) 1 only b) 2 only c) Both 1 and 2 d) Neither 1 nor 2

55. Arrange the different layers of Sun in the sequence of 'outside to inside'

1. Photosphere 2. Chromosphere 3. Corona 4. Core

Choose the correct answer using the codes given below

- a) 1-2-3-4 b) 2-1-3-4 c) 3-2-1-4 d) 4-3-2-1

56. What is the location of the 'Kuiper Belts' in the Solar system?

- a) Between Mars and Jupiter b) Between Uranus and Pluto
c) Between Sun and Mercury d) Beyond the dwarf planet Pluto

57. Consider the following statements

1. The meteorite is the streak of light that appears in the sky when it enters the atmosphere (mesosphere) at about 200 km at high speed and burns up because of the friction.
2. A meteorite does not burn up completely and makes its way to the Earth's surface. The surviving chunk is called a meteoroid.

Choose the correct statement/s using the codes given below

- a) 1 only b) 2 only c) Both 1 and 2 d) Neither 1 nor 2

58. Why did Chandrayaan-2 aim to explore the Lunar South Pole region?

1. To find out the possibilities of presence of water in the region.
2. To find out the fossil records of the early solar system.
3. It has been unexplored by any space agency.

Choose the correct answer using the codes given below

- a) 1 and 2 only b) 2 and 3 only c) 1 and 3 only d) All of the above

59. The terms 'Pratyush' and 'Mihir' are often seen in the news. What are they related to?

- a) Giant Superconducting magnets
b) Indian fastest Supercomputers
c) India's first indigenous surgical robots
d) Indian manufactured thermal cores dedicated for the ITER research in Geneva.

60. Consider the following statements

1. Virtual reality describes a three-dimensional, computer generated environment which can be explored and interacted with by a person.
2. In augmented reality, real-world environment elements are enhanced by computer-generated perceptual information.

Choose the correct statement/s using the codes given below

- a) 1 only b) 2 only c) Both 1 and 2 d) Neither 1 nor 2