

Earth & The Solar System

Question Paper

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| Course | CIE IGCSE Physics |
| Section | 6. Space Physics |
| Topic | Earth & The Solar System |
| Difficulty | Easy |

Time Allowed 10

Score /5

Percentage /100

Question 1

Which of the planets listed is the gaseous planet which is closest to the Sun?

- A. Jupiter
- B. Mars
- C. Saturn
- D. Uranus

[1 mark]

Question 2

Which of the following objects are described as orbiting the Sun?

- 1. Asteroids
- 2. Comets
- 3. Galaxies
- 4. Moons

- A. 1 and 2 only
- B. 1, 2 and 3
- C. 1, 2, and 4
- D. 1, 2, 3 and 4

[1 mark]

Question 3

What creates the periodic nature of the seasons?

- A. The tilting of the Earth's axis
- B. The orbiting of the Earth around the Sun
- C. The combination of the orbiting of the Earth around the Sun and the Earth's tilting axis
- D. The change in temperature of the Sun

[1 mark]

Question 4

Which of the following statements about the strength of a gravitational field is correct?

| | At the surface of a planet it depends on | Around a planet it |
|---|--|---|
| A | the diameter of the planet | decreases as the distance from the planet increases |
| B | the diameter of the planet | increases as the distance from the planet decreases |
| C | the mass of the planet | decreases as the distance from the planet increases |
| D | the mass of the planet | increases as the distance from the planet increases |

[1 mark]

Question 5

Extended tier only

Which of the following statements about orbits is true?

- A.** All planets, minor planets and comets have elliptical orbits
- B.** The Sun is at the centre of an elliptical orbit
- C.** Only comets and minor planets have elliptical orbits
- D.** An object in an elliptical orbit has a constant orbital radius

[1 mark]