



Grade 8

Science

Time : 1 hour

14 - Phenomena and exploration associated with the solar system

- Select the most suitable answer and underline it.
- (1) A planet which is not having a sub planet is,
 i) Earth ii) Mercury iii) Saturn iv) Mars
 - (2) Two planets which are locating either side of mars are
 i) Mercury and Venus ii) Jupiter and Saturn
 iii) Earth and Saturn iv) Earth and Jupiter
 - (3) Revolution of a planet is,
 i) Rotates around its own axis.
 ii) Rotates around its own axis while going around the sun.
 iii) Time taken for a day.
 iv) Rotates the earth around the moon.
 - (4) During a solar eclipse.
 i) The earth comes between the sun and moon.
 ii) The moon comes between the sun and the earth.
 iii) The sun comes between the moon and the earth.
 iv) None of the above.
 - (5) The first artificial satellite is,
 i) Telstra ii) Rawana
 iii) Sputnik - 1 iv) Luna I
 - (6) The brightest star in the night sky is,
 i) Pollux ii) Aldebaran
 iii) Regulus iv) Sirius
 - (7) The star pattern which denotes twins is,
 i) Libra ii) Gemini
 iii) Taurus iv) Pisces
 - (8) The star pattern which belongs the polar star is,
 i) Ursa major ii) Leo
 iii) Ursa minor iv) Pleiades

(9) A planet which can be observed through our naked eye and haven't a solid surface is,

- i) Mercury
 ii) Mars
 iii) Venus
 iv) Saturn

(10) This is not a type of lunar eclipse,

- i) Partial lunar eclipse
 ii) Annular lunar eclipse
 iii) Total lunar eclipse
 iv) Penumbral lunar eclipse

(10 x 2 = 20 marks)

- Answer all questions.

- (1) i) What do you mean by rotational time of a planet? (02)
 ii) Write 2 reasons for the occurrence of seasonal changes. (02)
 iii) In which regions those distinct seasonal changes can be observed. (02)
 iv) What is the revolution time of the earth? (02)
 v) How do we name the path that a planet revolves around the sun? (02)

(10 marks)

- (2) i) What is meant by phases of the moon. (02)
 ii) Explain the way of occurring a solar eclipse. (03)
 iii) On which day that the solar eclipse can be occurred? (02)
 iv) Explain the way of occurring a lunar eclipse. (03)

(10 marks)

- (3) i) Name 2 gases that can be used to fill balloons. (02)
 ii) Briefly explain the way of functioning a liquid fuel rocket. (04)
 iii) Name the space craft which carried the astronaut who first landed on moon. (01)
 iv) Give another name for the constellation of "hunter". (01)
 v) What is the unit used to measure the distance between stars? (01)
 vi) To which constellation that the brightest star in the night sky belong? (01)

(10 marks)



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