

Time – 2 Hours

F.M:50

General Instructions:

- Read the questions thoroughly before answering.
- Attempt all the questions.
- Write in legible handwriting.
- The question paper contains 9 questions in four sections A, B, C & D.
Sec. - A carries 1 mark questions.
Sec. - B carries 2 marks questions.
Sec. - C carries 3 marks questions.
Sec. - D carries 4 marks questions.
- Verify the answers before submission of answer sheets.

SECTION – A

Q.1. Choose the correct answer:

(5x1=5)

- a) A well which has steps on all its sides.
i) Tubewell ii) Bore well iii) Baolis iv) Well
- b) Which of the following planet is not a Jovian planet ?
i) Jupiter ii) Venus iii) Saturn iv) Neptune
- c) The percentage of gas which is present in maximum quantity in air.
i) 87% ii) 97% iii) 78% iv) 21%
- d) The Lunar Probe launched in twenty first century.
i) IMS-1 ii) GSAT-4 iii) Chandrayaan-1 iv) CARTOSAT
- e) Which of the following is a solid pollutant ?
i) Carbon monoxide ii) Ozone iii) Germ iv) Sulphur dioxide

(5x1=5)

Q.2. Fill in the blanks:

- a) Water is a _____ for many plants and animals.
- b) The nearest neighbour of our earth in space is _____.
- c) We see the sunrise in the east and sunset in the west due to the _____ of the earth from west to east.
- d) The _____ particles present in air is visible to us in the beam of light.
- e) The distance travelled by a vehicle per litre of fuel is called _____.

Q.3. Express in one or two word/s.

(5x1=5)

- a) Harmful rays of sunlight that affects the living world.
- b) A renewable source of energy which is produced from animal and plant wastes.
- c) The animals which can live both in water and on land.
- d) The machine which is operated by steam energy to generate electricity.
- e) The satellite that helps in "Live View" of an event, in any part of the world.

Q.4. Answer the following questions in one sentence.

(4x1=4)

- a) Define transpiration.
- b) How does the solubility of a substance vary with rise in temperature?
- c) Name the type of fuel used in aeroplanes.
- d) Write the full form of IAU.

SECTION - B

Q.5. Give reasons:

(2x2=4)

- a) Mercury is not regarded as the hottest planet even though it is closest to the sun.
- b) We see water droplets on the outer surface of the glass tumbler containing ice.

Q.6. Answer the following questions.

(3x2=6)

- a) Ancient people devised the concept of constellations. Explain its importance for them.
- b) Explain the cause of global warming and write its harmful effects.
- c) Differentiate between day- time sky and night-time sky.

SECTION - C

Q.7. Answer the following questions.

(3x3=9)

- a) Give a brief description on Ursa Major. Also explain how you can locate pole star with the help of Ursa Major.
- b) How is water supplied in towns and cities?

- c) Sai and Shreya visited their uncle's Industrial Unit during winter break. The staff of the Unit, greeted them warmly and took them around their Unit. Their uncle explained that their Unit was very eco-friendly and was using solar panels consisting of solar cells to meet most of their energy requirements.
- i) Write four uses of solar cell.
- ii) It is advised to use solar panels consisting of solar cells. Give reason.
- iii) Write the values that you learn from the staff of the unit.

SECTION – D

Q.8. Answer the following questions.

(2x4=8)

- a) How do plants take in nitrogen gas? Explain briefly.
- b) Buses, auto-rickshaws and cars now prefer to use CNG as their fuel. State any four reasons.

Q.9. Draw a well labelled diagram of water cycle.

(1x4=4)