Chapter 10

Air

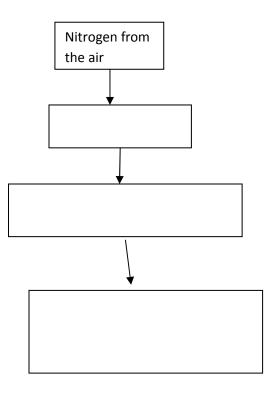
1. Fill in the blanks

- a) Air also contains ______ and small amount (1%) of other gases.
- b) The other gases include carbon dioxide, ozone, _____ and _____ etc.
- c) All the animals, including human beings, need ______ to live.
- d) All the animals use oxygen to produce _____ from the food eaten by them.
- e) ______ is required for burning.
- f) Plants require air to live and _____.
- g) _____ prevents harmful ultraviolet rays from reaching the surface of the earth.
- h) The impurities in air are known as ______.
- i) The _____ damages crops and reduce fertility of soil.
- j) Presence of carbon dioxide and some other gases in air causes the phenomenon called
- 2. Match the following

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Column A	Column B
Nitrogen	Clean fuel
Oxygen	Pollutants
Carbon monoxide	Damages the crop
LPG	78% in air
Acid rain	21% in air

- 3. State whether given statements are true/false
 - a) Air is an invisible mixture of gases.
 - b) Dirt raised from the ground during dust storm helps to clean air.
 - c) In air the 'increased green house effect' can cause global warming.
 - d) Garbage should be dumped in a pit, where it gets converted into compost.
 - e) Smoke from forest fire does not pollute air.
- 4. Multiple choice questions
 - A. _____ is one of the constituent of other gases in air.
 - a) Nitrogen b) Oxygen c) Helium d) Water vapor
 - B. The gas breathed out by animals is _____.
 - a) Oxygen b) Carbon dioxide c) nitrogen d) hydrogen
 - C. The _____ present in the upper layer of the atmosphere prevents ultraviolet from reaching the earth.
 - a) Ozone b) Hydrogen c) Nitrogen d) none of the above
 - D. Which one of them is not effect of air pollution?
 - a) Polluted air causes problems like suffocation, cough and headache.
 - b) Stone dust raised by crushing of stone in quarries.
 - c) Presence of carbon dioxide and other gases causes green house effect.
 - d) Oxides of Nitrogen and Sulphur cause acid rain.

- 5. Answer the following questions
 - a) Name the gas which is the major component of air.
 - b) Are plants able to take nitrogen in its gaseous form from the air?
 - c) Why is that we can feel air but we cannot see it?
 - d) How is air important for animals and plants?
 - e) Why do we say that plants need air to live?
 - f) How is balance between oxygen and carbon dioxide maintained in nature?
 - g) How does our atmosphere acts as shield to protect us from harmful rays of sunlight?
 - h) What is polluted air?
 - i) Why should we share or pool the vehicles for going to the office?
 - j) What damages the monuments made of marble?
- 6. Complete the flow chart on how nitrogen in the air gets absorbed by plants.



- 7. Make a collage showing the effects of air pollution.
- 8. The student should make a poster to encourage tree plantation and along with that write a paragraph how this will help in reducing air pollution.
- 9. The student should carry on research on internet and write down a small write up on what has happened to the ozone hole due to lockdown all over the world.

Chapter 11

Our Solar System

1. Fill in the blanks

- a) The sun and its eight planets constitute the_____
- b) The _____ is the central part of the solar system.
- c) _____ that work through solar energy are used in devices like calculators and wrist watches.
- d) _____ are celestial bodies that move around the sun.
- e) The movement of earth around the sun is known as_____.
- f) _____ is the smallest and airless planet.
- g) _____ is hottest of all the planets.
- h) _____ is known as the red planet.
- i) _____ is third largest planet of the solar system.
- j) _____ is natural satellite.
- 2. Match the following

Column A	Column B
Revolution	Hottest planet
Rotation	Red planet
Artificial satellite	Movement of planet around sun
Mars	Spinning of earth on its axis
Venus	Aryabhatta

- 3. State whether given statements are true / false
 - a) The sun has its own light and heat.
 - b) Earth has its own three moons.
 - c) Moon takes 28 days to revolve around the earth.
 - d) The Saturn is known as ringed planet
 - e) Neptune is the hottest planet of all.
- 4. Multiple choice questions
 - A. Which planet is known as blue planet?
 - a) Mercury b) Earth c) Uranus d) Saturn
 - B. The earth rotates on its axis in _____.
 - a) 12 hours b) 24 hours c) 26 hours d) 32 hours
 - C. Earth is known as blue planet because
 - a) Of reflection of sunlight from water and landmass.
 - b) Rotation c) Revolution d) none of the above
 - D. Which of them together are known as gaseous planet?
 - a) Jupiter, Mars, Mercury b) Jupiter, Saturn, Uranus and Neptune c) Saturn, Mars, Earth d) Uranus, Neptune and Mars
 - E. Which of the statement is not correct about artificial satellite?
 - a) It takes 28 days to complete its revolution around the earth.

- b) It is used for communication.
- c) It is used for weather forecasting. d) it is used to collect information about other planets.
- 5. Answer the following questions
 - a) Name the constituents of the solar system.
 - b) Why can we think of sun as ball of fire?
 - c) Why is sun essential for growth and survival of all life forms on the earth?
 - d) What is planet?
 - e) What make the planet Venus the hottest planet of all?
 - f) Why does earth appear as blue and green spherical balls?
 - g) What causes the formation of day and night on earth?
 - h) What has made earth suitable for development and sustainance of life?
 - i) Which planets are referred to Jovian planets?
 - j) How is natural satellite different from artificial satellite?
 - k) Why do we see different phases of moon?
- 6. Define the terms
 - a) Revolution
 - b) Rotation
 - c) Orbit
- 7. Make a model of the solar system showing the relative position of various planets.
- 8. The student should carefully observe the moon in the night for 30 days and draw the different phases of the moon.
- 9. Identify me
 - a) I am large sphere of hot gases and I am luminous body and I am centre of solar system.
 - b) I am second largest planet and have rings surrounding it.
 - c) I am eighth planet from the sun and I am also known as windy planet.
- 10. Make a diagram of changes of seasons on the earth.