

# Natural Science

3

## Chapter-1 Animals And Their Eating Habits

### Section-A

**A. Complete the food chains, choose from the words given below :**

1. Leaves → Caterpillar → Bird
2. Water → Fish → Human
3. Grass → Deer → Lion
4. Grain → Hen → Human

**B. Who has it? Name one animal for each :**

1. Deer, 2. Lion, 3. Lizard, 4. Mosquito, 5. Butterfly

**C. Answer the following :**

1. All living creature need food to survive. The plants make their own food. However, the animals cannot make their own food. That is the reason that animal depends on plants for their food. Thus, all food chain starts with plants.

2. **Herbivores :** Animals like horses, giraffes, goats, cows, buffaloes and zebra etc. eat only plants. They are called herbivores.

**Carnivores :** There are many animals which do not eat plants. These animals eat the flesh of other animals. They are called carnivores. Lions, tigers, cheetahs, wolves and snakes are the examples of carnivores.

**Omnivores :** There are so many people who eat fruits and vegetables as well as meat. Human being can eat both plants and animals. They are called omnivores. Bears and crows are also omnivores.

### Section-B

**Multiple Choice Questions :**

1. (c) Lion, 2. (a) Sharp and broad, 3. (b) Plants, 4. (c) Bear, 5. (b) Cow, 6. (c) Snake, 7. (a) Butterfly.

## Chapter-2 What Are Things Made Of ?

### Section-A

**A. Where do we get the following materials from ?**

1. Timber : Teak Tree, 2. Rubber : Rubber Trees, 3. Paper : Bamboo Tree, 4. Jute : Jute Plant, 5. Linen : Flax Plant, 6. Leather :

Animals, 7. Wood : Teak Tree, 8. Cotton : Cotton Plant, 9. Plastic : Petroleum.

**B. What materials are the following things made from ?**

Plastic, Wood, Plastic, Rubber, Silk & Wool, Leather

**C. There is a very serious danger in using plastic things. We throw them away very soon, they remain in the soil and pollute it. Hence, we should avoid the use of plastic made things.**

### Section-B

**Multiple Choice Questions :**

1. (d) Leather, 2. (d) Wool, 3. (b) Paper, 4. (c) Rubber, 5. (c) Sand.

## Chapter-3 Rock And Soil

### Section-A

**A. Fill in the blanks :**

1. Soil, 2. Diamond, 3. Humus, 4. Sandy, 5. Clayey, 6. Minerals, 7. Humus, 8. Clayey Soil

**B. Match the columns :**

- |                   |                            |
|-------------------|----------------------------|
| (a) Chalk         | a very soft rock           |
| (b) Diamond       | hardest rock               |
| (c) Clayey soil   | a mixture of sand and clay |
| (d) Rotton plants | humus                      |
| (e) Loam          | good for rice              |

**C. Answer the questions given below :**

1. Rocks broke into very small pieces and it is formed soil.
2. Soil's made up of two main parts :  
Tiny pieces of rocks and rotten pieces of dead plants and animals.
3. Rotten plants and animals are known as humus. Humus is dark brown in colour.
4. The soil used by potten is soft and can be easily moulded into whatever the shape. The soil contains very small particles. It is very smooth in touch and contains mostly clay. Such soil is called clayey soil.
5. We cannot grow most plants well in sandy soil because it does not hold much water. There are large particles with lots of spaces between them and water seeps through these spaces very easily.

6. Loam is best for growth of plants, because it is a mixture of sand and clay. It can hold both water and air. There is also humus in this kind of soil.

### Section-B

#### Multiple Choice Questions :

1. (a) Loam, 2. (c) Diamond, 3. (d) All of these, 4. (c) Clayey soil, 5. (d) Chalk, 6. (c) Loam, 7. (a) Humus, 8. (a) Sand and Clay, 9. (a) Rocks and Soil.

## Chapter-4 Our Houses

### Section-A

#### A. Fill in the blanks :

1. sunlight, 2. dirty, clean, 3. Air, 4. mosquitoes, germs, 5. dustbins.

#### B. Match the columns :

1. Drainage system - carries dirty water away  
2. Garbage - dustbin  
3. Flies - spread diseases  
4. Wire netting- keeps insects out  
5. Windows - let sunlight in  
6. Sunlight - kills germs

#### C. Answer the following questions given below :

1. We all live in our houses. It protects us from the sun, wind, rain and snow. It also protects us from animals and criminals.  
2. Pucca houses are made of bricks, cement, steel, wood and glass.  
3. Sunlight helps in killing germs that can make us sick.  
4. Dirty water allows mosquitoes and germs grow well and then spread disease. Thus, it is harmful for us.

### Section-B

#### Multiple Choice Questions :

1. (d) All of these, 2. (c) To purify the air, 3. (c) To keep away mosquitoes, 4. (d) All of these, 5. (d) Garbage.

## Chapter-5 Living And Non-Living

### Section-A

#### A. Whether the following statements are True or False :

1. True, 2. True, 3. True, 4. True, 5. True, 6. True.

#### B. Match the columns :

1. Fish gills to breathe  
2. Plants make their own food  
3. Cockroach breathe through air holes  
4. Sunflower buds turn to face the sun  
5. Touch-me-not leaves closed when touched  
6. Insects fly towards light

#### C. Answer the questions given below :

1. Animals can not make their own food. Thus, they move from place to place in search of food.  
2. Food provides energy to grow, move and keep the bodies of the living thing fit and healthy.  
3. A seeds grow into a plant and when a plant grow into a tree, we can say that plants grow.  
4. Most of the animals feel changes in their surrounding with their sense organs. For example : Dog can smell food with its nose. Insects have feelers to feel changes.  
5. Two differences between living and Non-living things are :  
Living thing need food, whereas Non-living thing doesn't need food.  
Living things have movement whereas Non-living things doesn't have movement.  
6. Difference between plants and animals :  
Plants can make their own food whereas animal cannot make their own food.  
Plants cannot move from place to place for food whereas animals can move from place to place for food and shelter.

### Section-B

#### Multiple Choice Questions :

1. (a) Gills, 2. (c) Furniture, 3. (d) Aall of these, 4. (c) Lay eggs, 5. (d) Books.

## Chapter-6 Birds And Their Bodies

### Section-A

#### A. Mark (✓) for True and and (×) for False Statement :

1. (✓), 2. (×), 3. (✓), 4. (✓), 5. (×), 6. (✓).

#### B. What are they called :

1. down feathers, 2. flight feather, 3. body feather, 4. talons.

**C. Here are some beaks of birds. What kind of food do they eat? Choose among the food given :**

Grain, Nuts, Nectar from flowers, Fish, Small animals

**D. Give the name of one bird that does the following. Also describe the body part that helps it :**

1. Hummingbird : Hummingbird have a long, thin and pointed beak for sucking the nectar.
2. Wood pecker : they have claws
3. Duck : it scoops the muddy water using its beak.
4. Roosters : they have sharp and hard claws which help them to dig the ground.

#### Section-B

**Multiple Choice Questions :**

1. (b) Parrot, 2. (d) Broad flat beak, 3. (d) All of these, 4. (d) Duck, 5. (a) Flight feathers

### Chapter-7 Nesting Habits Of Birds

#### Section-A

**A. Mark (✓) for the True and (×) for False Statement :**

1. (×), 2. (✓), 3. (✓), 4. (✓), 5. (✓)
- B. After the passing of a few days, the shell of the egg breaks open and baby bird comes out. This is called hatching of egg. All birds reproduce by laying eggs. They build their homes called nests when they have to lay eggs.

**C. Complete the crossword using the clues below :**

1. Tailor bird, 2. Hatching, 3. Partridge, 4. Weave bird, 5. Migration.

#### Section-B

**Multiple Choice Questions :**

1. (c) Amongst tall grass, 2. (a) Winter, 3. (c) Siberian cranes, 4. (c) Migration.

### Chapter-8 Parts Of A Plant

#### Section-A

**A. Mark (✓) for True and (×) for False Statement :**

1. (✓), 2. (✓), 3. (✓), 4. (×), 5. (×), 6. (✓)

**B. Name the following :**

1. The shoot, 2. The root, 3. Leaf blade, 4. Money plant, 5. Potato, Onion and Ginger

**C. Answer the questions given below :**

1. The stem provides support to the plant. It helps the plant stand upright. It takes water to the leaves. It also takes the food made by leaves to different parts of the plant.
2. If there were no roots in the plants, they would have toppled over. Roots keep a plant firmly fixed to the soil. Plants fulfil their need of water and salts from the soil. Roots take and send them upto the stem and leaves.
3. The main function performed by the leaf is to make food for plant. The leaf makes use of water, carbon dioxide present in the air and sunlight to make food.
4. The food made by leaves is carried to different parts of the plant through the stem. Some of the food is consumed by the plant.
5. The baby plant starts growing when the seed falls on the ground and gets air, water and warmth.
6. Water, Sunlight, Carbon dioxide, Oxygen.

#### Section-B

**Multiple Choice Questions :**

1. (c) Carrot, 2. (c) Stomata, 3. (b) Green, 4. (d) All of these, 5. (a) Seed, 6. (c) Money plant.

### Chapter-9 The Human Body

#### Section-A

**B. Find the words in the word grid to fill in the blanks :**

1. Eyes, Ears, Nose, Tongue and Skin
2. Wind Pipe, 3. Blood, 4. Kidneys, 5. Muscles

**C. Which organs are we talking about :**

1. The skin, 2. Our tongue, 3. Our ears, 4. Our nose, 5. Our tongue, 6. Our eyes, 7. Brain

**D. Answer the following questions given below :**

1. The five parts of our body helping us doing these things are eyes, ears, nose, tongue and skin. These are called our five sense organs.
2. The skeleton gives our body its shape. If there is no skeleton, our body will collapse

- into a heap of flesh ! The skeleton also protect all the soft organs of our body.
- Brain directs the working of entire body system. So that we can say the brain is the most important organ in the body.
  - There are nose, windpipe and lungs which make up our breathing system.
  - When our food is properly digested then it can be absorbed by the body to give energy.

#### Section-B

#### Multiple Choice Questions :

- (d) All of these, 2. (a) In the mouth, 3. (c) Taking in oxygen, 4. (c) Brain, 5. (d) All of these.

### Chapter-10 Our Safety And First Aid

#### Section-A

#### A. Fill in the blanks :

- careless, 2. dangerous, 3. zebra, 4. red light, 5. left, 6. First-aid.

#### B. Match the columns :

- Accidents — carelessness and negligence
- Fireworks — explosion
- Waiting on the road — yellow Light
- Match stick — are
- Electrical Gadgets — shock

#### C. Answer the questions given below :

- There should essentially be an elderly member to help you light fire works.
- We should put the hand of the friend under a cold water tap. Keep it there until feeling of pain is stopped. After given first aid to the friend, we should ask our parents to call a doctor.
- We should not run on the staircase because it is dangerous for us. It can be a reason of accident.
- If we don't strictly follow the rules of the games, we can hurt ourself as well as others.
- We should essentially walk on the foot path. If we have to cross a road, always use the zebra crossing.
- The first help provided to an injured person is called first aid.

#### Section-B

#### Multiple Choice Questions :

- (b) Red, 2. (b) You may get burns, 3. (d) All of these, 4. (b) Cold water, 5. (d) All of these

### Chapter-11 Light, Sound And Forces

#### Section-A

#### A. Fill in the blanks :

- Glass, 2. light, 3. back, fonth, 4. push, pull, 5. force, 6. food we eat.

#### B. Match the columns :

- Source of our energy — food
- Loud sound — can hurt your ears
- Bouncing of light — reflection
- Back and forth movement — vibration

#### C. Draw a circle around the sources of light :

Candle, Bulb, Sun

#### D. Mark (✓) for the True and (×) for False Statements :

- (✓), 2. (✓), 3. (×), 4. (✓), 5. (✓)

#### E. Answer the questions given below :

- Formation of shadow take place when something blocks the path of light.
- Light is so important for all of us. We can see things only when there is light.
- Bouncing of light is called reflection.
- Sound is generated when anything moves back and forth rapidly.
- There is generation of sound when something moves back and forth very rapidly. This kind of movement called vibration.
- We need energy for the doing of our work.

#### Section-B

#### Multiple Choice Questions :

- (d) Book, 2. (c) A window pane, 3. (a) Reflection, 4. (d) All of these, 5. (d) All of them, 6. (b) Shadow.

### Chapter-12 Our Earth

#### Section-A

#### A. Fill in the blanks :

- crust, 2. rotation, 3. core, 4. axis

#### B. Match the columns :

- |               |   |
|---------------|---|
| 1. Axis       | imaginary line passing through Earth's centre |
| 2. Revolution | movement of Earth                             |
| 3. Rotation   | cause of day and night                        |

4. Orbit Path along which the Earth goes around the sun  
 5. Core very hot

**C. Mark (✓) for True and (×) for False Statements :**

1. (✓), 2. (✓), 3. (×), 4. (✓), 5. (✓)

**D. Answer the questions given below :**

- When the Earth was formed, it was like a huge ball, made up of rocks and gases.
- (a) **Crust** : Cool part of the earth called the crust.  
 (b) **Core** : There is a solid ball of melted metals on the earth is called core.  
 (c) **Mentle** : The part existing between the crust and core is called mantle.  
 (d) **Axis** : The imaginary line along which the earth spins is called axis.
- Our earth is like a huge round ball. However, it is not precisely round in shape. It is slightly flattened at the top and bottom. Astronauts looked at the earth from outer space and it appears to them like a huge blue ball from there.
- Rotation is causes day and night.
- The movement of earth is called revolution.

**Section-B**

**Multiple Choice Questions :**

1. (a) Crust, 2. (d) Round and flat at the top and bottom, 3. (a) Mantle, 4. (b) Once in a year, 5. (b) Axis, 6. (b) Rotation.

**Chapter-13  
The Sun, Moon And Stars**

**Section-A**

**A. Fill in the blanks :**

1. has, 2. gases, 3. constellations, 4. planet, 5. earth

**B. Solve the crossword with the given clues :**

1. Constellation, 2. Sun, 3. Stars, 4. Planets, 5. Moon

**C. Mark (✓) for True and (×) for False Statements :**

1. (×), 2. (✓), 3. (✓), 4. (✓), 5. (✓)

**D. Answer the questions given below :**

- Planets go around a star. They do not have their own light. There are eight planets that go around the sun. Our earth is one of these

eight planets. The sun and its eight planets belong to the solar system.

- Scholarly people linked several stars together to form a pattern or shape in the sky. These pattern and shapes are called constellations.
- The moon takes nearly 28 days to go around the Earth.
- The moon has no light of its own, and is lit up by the light from the sun.
- When the moon comes between the sun and the Earth, the side of the moon facing us does not get sunlight. We can not see the moon at all because its dark side faces us. This is the new moon. After a day or two, we see a small portion of the moon because visible. We call it half moon. After seven days, half of the moon. After the passing of two or three days, we can see more than half of he moon. The passing of two weeks, the moon is on the opposite side. This is the time when the full side facing us get sunlight. We can then see the full moon.

**Section-B**

**Multiple Choice Questions :**

1. (c) Sun, 2. (b) Day 14, 3. (a) Sun, 4. (b) Venus, 5. (a) Sun

**Chapter-14  
Air, Water And Weather**

**Section-A**

**A. Name these :**

1. wind, 2. carbon dioxide, 3. storm, 4. Ice, water and water vapour, 5. breeze

**B. Fill in the blanks :**

1. gases, 2. Oxygen, 3. gas, 4. water, 5. sun, 6. warm air.

**C. Match the seasons with the pictures :**

- Summer Season (C)  
 Rainy Season (A)  
 Winter Season (B)

**D. Answer the following questions given below :**

- Air is made up of several gases like oxygen, carbon dioxide and nitrogen.
- There are also some harmful gases and smoke given out by vehicles running on roads and by our factories. These gases pollute the air. Breathing in this polluted air makes us sick.

3. Ice, water and water vapour are the three forms of water.
4. **Summer Season :** We feel very hot during the summer season. The days of this season are long and warm.
- Rainy Season :** In Rainy season heavy winds blows and clouds become dark grey.
- Winter Season :** We feel very cold during winter season. The days are short and the nights longer. We wear the woollen clothes in winter season.

#### Section-B

#### Multiple Choice Questions :

1. (d) All of these, 2. (c) Breeze, 3. (b) Small drops of water, 4. (d) All of these, 5. (a) Storm.

### Chapter-15 Our Environment

#### Section-A

#### A. Fill in the blanks :

1. environment, 2. polluted, 3. sick, 4. houses and roads, 5. houses and factories

#### B. Answer the questions given below :

- Dust and smoke emanating from cars, buses and factories make our air polluted.
- Garbage and waste from our homes and factories are usually thrown into seas, rivers or lakes. This makes the water pollution.
- We should plant more trees around our houses because plants clean the air. Hence, the air in the environment is not polluted.
- Vehicles pollute our air. The same is true of smoke coming from factories. There aren't plenty of plants and trees to clean the air. Hence, air is highly polluted. Thus, we can say generally air more polluted in cities than in villages.

#### Model Test Paper-1

#### 1. Match the columns :

- (a) Garbage — dustbins  
 (b) Tiger — Sharp front teeth  
 (c) Plants — Purification of air  
 (d) Buffalo — Chew the cud  
 (e) Humming bird — Long beak to suck nector  
 (f) Siberian crane — Migration  
 (g) Herbivores — Plant eating animals

#### 2. Mark (✓) for True and (×) for False statements :

1. (×), 2. (×), 3. (✓), 4. (✓), 5. (✓)

#### 3. Multiple Choice Questions :

- (a) (ii) Eagle, (b) (ii) Plastic, (c) (iii) Sense organs, (d) (ii) Humus, (e) (iv) Snake

#### 4. Answer the questions given below :

- Plastic come from petrolium. Petroleum also gives us petrol and diesel to run our motor vehicles. Wax, Kerosene, Vaseline and lots of other useful things are obtained from petroleum.
- Proper sunlight, open spaces and proper drainage system is essential for a good house.
- The force of water and wind, and changes in weather kept breaking the rocks into small pieces. As the time passed, these rocks broke into very small pieces and formed soil.
- Glass :** Sand is used to make glass.  
**Bricks :** Clay is used to make bricks.  
**Paper :** We get paper from bamboo tree.

#### Model Test Paper-2

#### 1. Fill in the blanks :

1. shoat, 2. nervous, 3. rotation, 4. negligent and careless, 5. polluted

#### 2. Multiple Choice Questions :

1. (d) All of these, 2. (a) Sun, 3. (d) Snow, 4. (a) Orbit, 5. (c) Garbage thrown in rivers.

#### 3. Mark a (✓) for True and (×) for False Statements :

1. (✓), 2. (✓), 3. (✓), 4. (✓), 5. (✓)

#### 4. Answer the questions given below :

- Our brain directs the working of entire body system. Thus, our brain is the most important in the body.
- Roots keep a plant firmly fixed to the soil. Roots of some plants such as carrot, radish and betroots store the food prepared by the plant.
- Garbage and wastes from houses and factories pollutes the water flowing in seas, rivers and ponds.
- We should be careful when we are walking to school or home. We should essentially walk on the footpath. If we have to cross road, always use the zebra crossing.
- We like winter season. Because we feel very cold during winter season. The days are short and the nights are longer. We would like to wear woollen clothes in winter. We also can experience snow fall in winter season.