

**IDEAL**

# **JUNIOR SCIENCE**

**Parts–1, 2 & 3**

**ANSWER KEY**

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# PART-1

## CHAPTER-1 A GREEN WORLD

### Breather

1. Hibiscus    2. Coriander    3. Grapevine  
4. Banyan    5. Heena

**A.** Tick (✓) the correct answer.

1. (b)    2. (b)    3. (a)    4. (b)    5. (b)

**B.** Fill in the blanks. Choose the right word from the box.

1. trees    2. climber    3. Mango    4. fruits

**C.** Match the following.

1. (b)    2. (d)    3. (e)    4. (c)    5. (a)

**D.** Answer these questions.

1. Herbs are very small and weak plants. They have green and soft stems.

For example, Spinach, wheat, etc.

2. (a) Rose                      (b) Hibiscus.

3. Plants grow from seeds.

### HOTS QUESTION

stem    flower    fruit

### THINGS TO DO

**A.** 1. NEEM    2. ROSE                      3. BANANA    4. TULSI

**B.** 1. NEEM    2. PEEPAL

3. MANGO    4. BANYAN

## CHAPTER-2

### FOOD FROM PLANTS

#### Breather

1. (d)    2. (e)    3. (a)    4. (c)    5. (b)

**A.** Tick (✓) the correct option.

1. (c)    2. (b)    3. (b)    4. (b)    5. (c)

**B.** Use these words to fill in the blanks.

1. Fruit    2. Vegetable    3. Food grain    4. Fruit  
5. Vegetable

**C.** Write two examples of the following.

1. (i) Brinjal                      (ii) Potato  
2. (i) Mango                      (ii) Papaya  
3. (i) Rice                        (ii) Wheat

**D.** Answer these questions.

1. We get most of our food from plants.
2. (Do yourself)
3. Some oilseed plants are mustard, peanut, coconut, etc.
4. Spices give the taste, colour, and flavour to the food.

#### HOTS QUESTION

1. sugar                      2. chilli

#### THINGS TO DO

- A.** 1. PUMPKIN                      2. CHILLI

#### ASSIGNMENT-1

**A.** Tick (✓) the correct option.

1. (b)    2. (b)    3. (b)    4. (b)

- B.** Give two examples of each of the following.
1. spinach, cabbage      2. almond, cashew
  3. moong, gram          4. carrot, radish
- C.** Name the four trees hidden in the box given below.  
Look for these and write them down in the blanks.
1. R O S E              2. C A C T U S
  3. M A N G O          4. B A N A N A
- D.** Use these words to fill in the blanks.
1. fruit                      2. root
  3. foodgrain              4. vegetable
- E.** Give two examples of each of the following.
1. Brinjal, Potato      2. Mango, Papaya

### CHAPTER-3 THE ANIMAL'S WORLD

#### Breather

1. Hen    2. Lizard    3. Crow    4. Horse    5. Sparrow
- A.** Tick (✓) the correct option.
1. (c)      2. (c)      3. (c)
- B.** Fill in the blanks with suitable words given in the box.
1. Fish    2. Monkey    3. Six    4. Bird
- C.** Can you name?
1. Whale, Elephant
  2. Ostrich, Emu
- D.** Answer these questions.
1. Wild animals are the animals that live in forest.

2. Amphibians can live both in water and on land.  
For example, Crocodile, Frog, Tortoise, etc.
3. Birds fly with the help of wings.
4. We kept domestic animals in the farm.

### **HOTS QUESTION**

zebra

### **THINGS TO DO**

- A.** a. crow    b. fish    c. dog

### **CHAPTER-4**

### **FOOD AND SHELTER FOR ANIMALS**

#### **Breather**

1. cow, deer    2. lion, tiger    3. frog, spider
  4. dog, crow    5. mouse, squirrel
- A.** Tick (✓) the correct option.  
1. (b)    2. (a)    3. (b)    4. (b)
- B.** Write the two examples of each of the following.  
1. Cow, Goat  
2. Lion, Tiger
- C.** Write 'T' for true and 'F' for false.  
1. (F)    2. (T)    3. (T)    4. (F)
- D.** Match the following with their homes.  
1. (c)    2. (d)    3. (e)    4. (b)    5. (a)
- E.** Answer the following questions.  
1. frog and spider                      2. dog and cat

## **HOTS QUESTION**

We can call those camel as 'wild animal' who live in forest, and the camel kept as pets and used for travelling in desert are called 'pets'.

## **THINGS TO DO**

- A.** SHED, BURROW, HIVE, DEN, TREE, COOP  
**B.** 1. Elephant 2. Tiger 3. Dog

## **CHAPTER-5 OUR BODY**

- A.** Tick (✓) the correct option.  
1. (b) 2. (b) 3. (b) 4. (b)
- B.** Fill in the blanks with the correct words given in the box.  
1. hands 2. feet  
3. four, thumb 4. playing
- C.** Match the following.  
1. (d) 2. (e) 3. (a) 4. (b) 5. (c)
- D.** Answer these questions.  
1. Eyes, Ears, Nose, Tongue and Skin are the five sense organs of human body.  
2. We can walk and run with our legs.  
3. The tongue helps us to speak and to taste.

## **HOTS QUESTION**

Eyes, Ears, Legs, Feet, Knees.

## **THINGS TO DO**

SKIN, TONGUE, EYES, NOSE, EAR

## FUN TIME

1. Hairs 2. Water 3. Head 4. Hand

### ASSIGNMENT-2

- A.** See the pictures of the animals and put a tick (✓) in the correct box.

	Animals		Can fly		Number of legs			Lives here		
	Big	Small	Yes	No	2	4	6	Land	Tree	Water
1. Elephant										
2. Bird										
3. Monkey										
4. Snake										

- B.** Tick (✓) the correct option.

1. (c) 2. (a) 3. (a)

- D.** NOSE, EAR, EYE, TONGUE, SKIN.

### TEST PAPER-1

(Based on lessons 1 to 5)

- A.** Can you name?

1. Elephant, Rhino 2. Ostrich, Emu  
3. Octopus, Turtle 4. Cow, Goat  
5. Swan, Duck

- B.** Fill in the blanks.

1. 6 2. Seed 3. fruits 4. bird 5. Monkey

- C.** Match the following.

1. (c) 2. (d) 3. (e) 4. (b) 5. (a)

**D.** Answer the following questions.

1. Air, water and sunlight help the baby plant to come out of the seed.
2. Wild animals are the animals that live in forest.
3. Our legs help us to walk, play, run and skip.  
Our hands help us to hold things, to eat, write and to clap.
4. Plants and animals are the two sources of our food.
5. Lion, Tiger and cheetah eat the flesh of other animals.

## CHAPTER-6 OUR BASIS NEEDS

### Breather

Tick (✓) the foods that we can eat raw.

**A.** Tick (✓) the correct option.

1. (c)    2. (c)    3. (c)    4. (a)

**B.** Fill in the blanks with the correct words given in the box.

1. food    2. strong    3. woollen    4. kitchen

**C.** Answer these questions.

1. We need food to grow and to stay healthy.

2. We wear woollen clothes in winter. They keep us warm.
3. Our house keeps us safe from heat, cold and rain.

**D.** Match the following.

1. (c)    2. (d)    3. (b)    4. (a)

### HOTS QUESTION

Bed, Pillows, Lamp

### THINGS TO DO

**A.** Fill in the missing letters.

- Down :-
1. MILK
  2. ORANGE

- Across :-
1. MANGO
  2. BANANA
  3. APPLE

## CHAPTER-7

### HEALTHY HABITS

#### Breather

Sequence the pictures in order of 1 to 4.



3



2



1



4

**A.** Tick (✓) the correct option.

1. (b)    2. (c)    3. (b)

**B.** Write 'G' for good habits and 'B' for bad habits.

1. G      2. G      3. B      4. G

**C.** Match the columns to complete the sentences.

1. (b)      2. (d)      3. (c)      4. (a)

**D.** (a) iv.      (b) iii.      (c) iii.      (d) i.

**E.** Answer these questions.

1. We need good health to develop good immune system, and to remain fit and strong.
2. We get rest from sleep.
3. We can keep our teeth healthy by :-
  - ★ Brushing our teeth twice a day
  - ★ Washing our mouth before and after having meal.
  - ★ Avoiding sweet food in order to avoid cavities.

### **HOTS QUESTION**

Ans:- Rohit should not eat biscuits in the hospital because eating biscuits in hospital may cause diseases to Rohit and it may also make the hospital dirty.  
Moreover, biscuit is sweet in taste; so, it can also cause cavity in teeth of Rohit.  
Therefore, Rohit isn't doing the right thing.

### **THINGS TO DO**

- A.** (Do yourself)
- B.** Make a list of good habits.
  - (a) We should get up early in the morning.

- (b) We must brush our teeth twice a day.
- (c) We must take a bath every morning.
- (d) We must keep our nails short.
- (e) We should comb our hair properly.
- (f) We should wash our hand before and after eating food.

## CHAPTER-8

### SAFETY AND FIRST AID

#### Breather

1. False 2. True 3. False 4. True 5. False

**A.** Tick (✓) the correct option.

1. (b) 2. (c) 3. (c) 4. (a)

**B.** Match the following.

1. (d) 2. (c) 3. (e) 4. (b) 5. (a)

**C.** Fill in the blanks with the given words.

1. open 2. clear 3. queue 4. window 5. follow

**D.** Answer these questions.

- 1. Before we cross the road, we look right , then left and then right again.
- 2. We should play in a playground or open place.
- 3. We should not play on the road to avoid accident and hence, loss of life.

#### **HOTS QUESTION**

If we can't swim well, we should not go for swimming alone; we should use swimming tube.

#### **THINGS TO DO**

**A.** Rearrange these letters and write them in the space.

BUS CAR GREEN SUB ROAD

**B.** Name these we generally use when we are hurt or injured.

BANDAGE                      DETTOL   COTTON

**C.** (Do yourself)

### ASSIGNMENT-3

**A.** Name the things that give you energy.

Milk      Chapati      Salad

**B.** Name any three things which you keep in your bedroom.

1. Bed    2. Lamp      3. Blanket

**C.** Name four things which your house protects you from.

1. Cold    2. Heat              3. Rain              4. Wind

**D.** We need clothes to cover body. We wear different types of clothes. Write their names.

Sweater      Rain coat      Shirt

**E.** When you want to cross a road, look very carefully in front of you and on both the sides. Name the 'me' in the following.

1. Red    2. Yellow      3. Green

### CHAPTER-9

#### AIR

#### Breather

1. False    2. True    3. False    4. True    5. True

**A.** Tick (✓) the correct option.

1. (c)    2. (b)    3. (a)    4. (a)

**B.** Fill in the blanks with the given words.

1. feel    2. wind    3. air    4. breathe
5. space, weight

**C.** Match the following.

1. (d)    2. (a)    3. (b)    4. (c)

**D.** Answer these questions.

1. We need air to breathe.
2. Wind is the fast moving air.
3. Wind / Air is useful as :-
  - (a) It helps boat to sail.
  - (b) It helps gliders to move.
  - (c) It is needed for lighting fire and to keep it burning.

### **HOTS QUESTION**

Burning require air because oxygen is necessary for burning.

### **THINGS TO DO**

- A.** STORM      WINDMILL SAIL BOAT
- B.** (Do yourself)

## **CHAPTER-10**

### **WATER**

#### **Breather**

We need water:

1. to stay alive    2. to drink    3. to put out fire
4. for washing clothes    5. for bathing

**A.** Tick (✓) the correct option.

1. (b)    2. (c)    3. (c)    4. (b)

**B.** Write 'T for true or 'F' for false statements.

1. (T)    2. (F)    3. (T)    4. (T)    5. (T)

**C.** Answer these questions.

1. Some of the uses of water are :-

- (a) We need water to drink.
- (b) We need water to cook food.
- (c) We need water to put out fire.

2. Sources of water are :-

- (a) Rain    (b) Rivers    (c) Well

3. We must always drink clean water. Drinking dirty water can make us sick.

If water is not clean, we must boil it. We can filter water to make it clean.

### HOTS QUESTION

We see water droplets on leaves and other objects outside the house in winter season because of the fog and mist present in the air due to winter.

### THINGS TO DO

R	I	V	E	R	W	E
J	L	A	T	A	N	K
W	E	L	L	I	N	L
O	C	P	O	N	D	A
O	C	E	A	N	O	K
N	P	T	A	N	K	E
S	T	R	E	A	M	N

## CHAPTER-11

### WEATHER AND SEASON

- A.** Tick (✓) the correct option.  
1. (c)    2. (b)    3. (a)    5. (a)
- B.** Write 'T' for true or 'F' for false statements.  
1. (F)    2. (F)    3. (T)    4. (T)
- C.** Match the columns to complete the sentences.  
1. (d)    2. (a)    3. (b)    4. (c)
- D.** Answer these questions.
1. We wear woollen clothes in winter season.
  2. We like to eat ice-cream and drink cold drink on hot day.
  3. On windy day, the wind blows very strongly and sometimes, these winds became storms.
  4. We use umbrellas, raincoats and gum boots on rainy days.

### HOTS QUESTION

In the summer season, the Sun shines brightly. The weather is hot so people like to stay indoors. The days and nights are cold in winter. Sometimes very cold winds blow. So people enjoy staying outdoors in the Sun.

### THINGSTODO

- A.** Write the weather when you use the following things.



## CHAPTER-12 UP IN THE SKY

- A.** Tick (✓) the correct option.  
1. (c)    2. (c)    3. (b)    4. (c)
- B.** Fill in the blanks with the given words.  
1. smaller                      2. heat, light    3. many  
4. moon                      5. sets
- C.** Match the following.  
1. (c)    2. (d)    3. (a)    4. (b)
- D.** Answer these questions.
1. The Sun gives us heat and light.
  2. The Sun sets in the west.
  3. The moon looks like a round ball at full moon night. It is also called full moon.
  4. We see the Moon and the Stars at night.

### THINGS TO DO

1. Sun
2. Aeroplane

### THINGS TO DO

- A.** Rearrange the letters in the brackets into word and fill in the blanks.
1. east
  2. moon
  3. night
  4. stars

## CHAPTER-13 GOING TO THE MOON

### Breather

1. Yes
2. We can go to the moon in a rocket or spaceship.

3. Space suit
  4. Rakesh Sharma, Kalpana Chawla, Sunita Williams
  5. A space shuttle is a rocket used to go into space.
- A.** Tick (✓) the correct option.
1. (c)      2. (c)
- B.** Answer these questions.
1. We can go to the moon in a rocket or spaceship.
  2. A spaceman wears space suit in space.
  3. The first Indian to go into space was Rakesh Sharma.
  4. The first human to go on the moon is Neil Armstrong.

### **HOTS QUESTION**

Neil Armstrong, Edwin Aldrin, Rakesh Sharma,  
Kalpana Chawla, Sunita Williams

### **THINGS TO DO**

- A.** (Do yourself)  
**B.** (Do yourself)

### **ASSIGNMENT-4**

- A.** Rearrange these letters and write them in the space.  
HOUSE      AIR      MOON
- B.** Name these we generally use when we hurt or injured.
- (1) BANDAGE
  - (2) DETTOL

(3) COTTON

(4) PAINKILLER

**C.** Name three sources of water.

Rain, Wells, Rivers

**D.** Fill in the blanks.

1. east                      2. moon

3. night                    4. stars

**E.** Write the names of the objects up in the sky.

1. sun    2. stars    3. kite

**F.** (Do yourself)

## **TEST PAPER-2**

(Based on lessons 6 to 13)

**A.** Tick (✓) the correct option.

1. (c)    2. (b)    3. (b)

**B.** Fill in the blanks.

1. breathe                      2. wind                      3. air

4. raincoat    5. ice-cream

**C.** Write 'T' for true or 'F' for false.

1. (T)    2. (F)    3. (T)    4. (F)

**D.** Answer the following questions.

1. Uses of air :-

(a) Air is filled into footballs, swimming tubes and cycle tyres.

(b) Air helps gliders to move.

2. We need house to keep ourself safe from heat, cold, wind and rain. A house keeps us safe from wild animals and thieves.

3. We need water to drink, to cook food, to bath, for washing clothes and for washing utensils.
4. Water has many uses. Some of them are :-  
We use water for cooking.  
We use water for bathing.
5. The stars look small to us because of their huge distance from the earth.

# PART-2

## CHAPTER-1 PLANTS AROUND US

### Breather

Spinach plant      Banyan      Sunflower

It has a thick woody stem called a trunk.

Sunflower is a shrub while spinach is a herb.

- A.** Tick (✓) the correct answer.  
1. (a)    2. (a)    3. (a)    4. (c)
- B.** Match the following.  
1. (c)    2. (d)    3. (e)    4. (b)    5. (a)
- C.** Fill in the blanks with the correct words given in the box.  
1. hard    2. many    3. climbers    4. soft  
5. sunflowers
- D.** Answer these questions.  
1. Palm Tree, Banyan Tree  
2. Grapevine, Pea Plant, Money Plant.  
3. Shrubs are small and bushy plants.  
4. Coriander and spinach are herbs.

### HOTS QUESTION

Because trees are tall, dense and strong as compare to shrubs.

### THINGS TO DO

Write 'T' for tree 'S' for shrub, 'C' for climber and 'H' for herb against the following:



**CHAPTER-2**  
**HOW PLANTS HELP US?**

**Breather**

1. stem    2. fruit    3. leaf    4. root    5. flower  
6. seed

**A.** Tick (✓) the correct answer.

1. (d)    2. (a)    3. (d)    4. (a)

**B.** Fill in the blanks. Choose the right word from the box.

1. fleshy and juicy    2. flavour    3. raw  
4. grain    5. Tulsi

**C.** Match the following.

1. (d)    2. (a)    3. (e)    4. (b)    5. (c)

**D.** Answer these questions.

- Plants give us food, medicines, perfumes, oil, wood, paper, gum, rubber, fibres, etc.
- We get tea from the leaves of tea plants.  
We get coffee from the seed of coffee plants.
- (a) Eraser    (b) Rubber band (c) Slipper

**HOTS QUESTION**

Only flowers having fragrance can be used for making perfumes.

**THINGS TO DO**

**A.** Complete the word.

1. Cabbage    2. Cotton  
3. Mustard    4. Bamboo

**B.** Rubber, rose, mustard seeds, jute, tomato

**C.**

Fruits	Nuts	Vegetables	Foodgrain
PINEAPPLE APPLE GRAPE	WALNUT CASHEWNUT COCONUT	CAULIFLOWER SPINACH BEAN	WHEAT RICE CORN

## UNIT-2 ANIMAL LIFE

### CHAPTER-3 USEFUL ANIMALS

#### Breather

1. dogs, cats    2. cows, buffaloes    3. cows, buffaloes  
4. curd, butter    5. honey, wax

**A.** Tick (✓) the correct answer.

1. (b)    2. (d)    3. (c)

**B.** Match the following columns.

1. (b)    2. (a)    3. (e)    4. (c)    5. (d)

**C.** Give two examples of.

- Cows and Buffaloes
- elephant, donkey
- dead animals

**D.** Answer the following questions.

- Animals which we keep at our homes or farms are called domestic animals.
- Silkworms give us silk.

#### HOTS QUESTIONS

Horse

#### THINGS TO DO

How these animals are useful to us? Write in the given space.

#### CHAPTER-4



Give us milk



Give us wool



give us milk

## WILD ANIMALS

### Breather (Page 29)

Cheetah

### Breather (Page 31)

1. Web 2. Den 3. Nest 4. Hole 5. Tree

**A.** Tick (✓) the correct answer.

1. (d) 2. (a) 3. (a) 4. (c)

**B.** Fill in the blanks with the given words.

1. nest 2. burrow 3. den 4. web

**C.** Cross the odd one from each group.

1. (a) Ox (b) Giraffe (c) Monkey (d) Deer

**D.** Answer these questions.

1. Wild animals live in forest.

For example, Lion and Tiger.

2. Birds make nests to lay their eggs and to keep their babies safe.

3. Crocodiles and Cheetahs eat other animals for food.

### THINGS TO DO

**A.** 1. Flesh 2. Flesh 3. Grass

4. Leave and Sugarcane

**B.**

M	Y	N	A	H	G	H
M	B	D	R	F	H	K
Z	X	D	O	D	O	X
C	S	O	W	L	R	C
W	W	L	Y	P	O	R
H	I	P	P	O	I	O
A	R	H	I	N	O	C
L	T	I	G	E	R	O
E	B	N	I	D	K	D
V	M	S	O	S	F	I
Z	C	V	F	A	C	L
V	U	L	T	U	R	E

1. CROCODILE

2. OX

3. WHALE

4. TIGER

5. RHINO

6. HIPPO

7. VULTURE

8. DOLPHIN

## Test Paper-1

- A.** 1. (b) 2. (a) 3. (c) 4. (b) 5. (b)
- B.** 1. Flavour and taste 2. Creeper 3. Shrubs  
4. Oxygen 5. Perfume
- C.** 1. Carrot, radish 2. Rose, lemon 3. Neem, arjuna  
4. Hen, goat 5. Elephant, donkey
- D.** 1. Domestic animals are those animals which are bred in homes and farms.  
2. Sheep, camel  
3. Creepers are plants with weak stems that grow along the ground, around another plant, or up a wall using extending stems or branches.  
4. Eraser, tyres, toys  
5. Do it yourself.

## CHAPTER-5

### BONES AND MUSCLES

#### Breather

1. bones 2. Muscles 3. Skin 4. Skeleton 5. joint
- A.** Tick (✓) the correct answer.  
1. (d) 2. (b) 3. (c) 4. (d)
- B.** Choose the correct words from the brackets.  
1. together 2. heart 3. strong 4. hard 5. bones
- C.** Write "True" or "False".  
1. (F) 2. (T) 3. (F) 4. (T)
- D.** Answer these questions.  
1. Muscles are responsible for all of our body movements and they also help the bones to move.

2. Posture is the way we keep our body when we sit, stand or walk.
3. Our body has 206 bones and more than 600 muscles.
4. Joints help us to bend, twist, and move our body.
5. Bones form a framework of our body which lies under the skin and is called the skeleton. It gives shape and support to our body.

### HOTS QUESTION

(Do yourself)

### THINGS TO DO

#### A. SKELETON MUSCLES EXERCISE

- B.**
1. M O U T H
  2. H A N D
  3. E Y E
  4. N E C K

### ACTIVITY

Our arm is hard because of the bones present in our arm.

Our stomach is soft because bones are not present in our stomach. In stomach, only muscles are present.

## CHAPTER-6 OUR FOOD

### Breather

Circle the odd food item in each.



A. Tick (✓) the correct answer.

1. (d)    2. (d)    3. (c)

B. Fill in the blanks. Choose the right word from the box.

1. energy    2. dinner    3. food    4. health    5. morning

C. Name three foods item that

1. (a) Banana    (b) Apple    (c) Pineapple

2. (a) Rice    (b) Sugar    (c) Bread

D. Match the columns to complete the sentences.

1. (c)    2. (d)    3. (a)    4. (b)

E. Answer these questions.

1. Food gives us energy.

2. We need food to grow.

3. Some of the good eating habits are:-

(i) We must not waste food.

(ii) We must eat slowly and chew our food well.

4. We should not eat junk food because junk foods are harmful for our teeth and health.

## HOTS QUESTION

(Do yourself)

### THINGS TO DO

- A. (Do yourself)  
B. 1. energy      2. proteins      3. vitamins

## CHAPTER-7 HOUSES AND CLOTHES

### Breather

1. wood    2. ice      3. wheels      4. canvas  
5. Straw    6. bricks

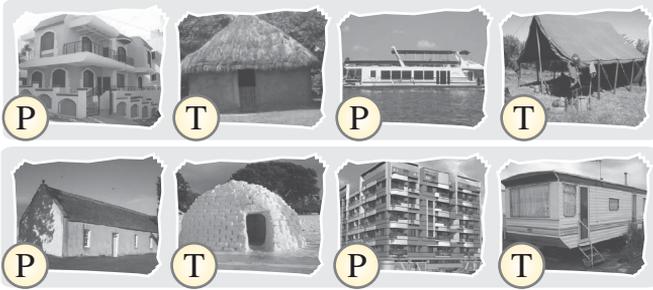
- A. Tick (✓) the correct answer.  
1. (d)    2. (a)    3. (c)    4. (a)
- B. Match the following.  
1. (c)    2. (d)    3. (c)    4. (a)    5. (b)
- C. Fill in the blanks. Choose the right word from the box.  
1. heat, cold    2. cement                      3. temporary  
4. straw              5. flat
- D. Answer these questions.
- We need a house to live in.  
A house protects us from rain, storm, heat, cold, wild animals and thieves.
  - Pucca houses are made up of bricks, cement and iron rods.
  - We would find sloping roofs in the places which have heavy rainfall.
  - We wear clothes to cover our body. They protect us from heat, cold and rain.

## HOTS QUESTION

(Do yourself)

### THINGS TO DO

- A. Write 'P' for permanent and 'T' for temporary houses.



- B. Across
1. HOUSE BOAT
  3. CARAVAN
- Down
1. HUTS
  2. TENT

## CHAPTER-8 SAFETY HABITS

### Breather

1. ✗    2. ✗    3. ✓    4. ✓    5. ✗    6. ✓

- A. Tick (✓) the correct answer.

1. (c)    2. (b)    3. (c)    4. (a)    5. (c)

- B. Fill in the blanks.

1. pavement    2. kites    3. queue  
4. alone    5. safe

C. Answer these questions.

1. We should light candles with the help of parents. Do not play with crackers.
2. We should cross the road through a subway or at the zebra crossing.
3. While swimming, we should follow the following rules:-
  - ★ We should always use a swimming tube.
  - ★ We should not go into the deep end.
4. First-aid is the immediate treatment given to an injured person before arrival of a doctor.

### **HOTS QUESTION**

Some can slip if there are toys on the floor. So we should not leave toys on the floor.

### **THINGS TO DO**

- A. (Do yourself)
- B. (Do yourself)

### **Test Paper-2**

**(Based on Lessons 1 to 8)**

- A. Tick (✓) the correct answer.
  1. (a)
  2. (b)
  3. (a)
  4. (c)
- B. Fill in the blanks.
  1. together
  2. beehives
  3. Neem
  4. flat
- C. Write short answer.
  1. Rose and Hibiscus
  2. Neem and Tulsi

3. Wild animals eat grass, leaves, and flesh of other animals.
4. Food give us energy.
5. Igloo is a shelter made up of snow.

**D.** Answer the following questions.

1. Shrubs are small and bushy plants.
2. Plants give us food, wood, fibres, medicines, perfume, gum, rubber, oils, etc.
3. Animals that we keep in farms or in our houses are called domestic animals.
4. Muscles are responsible for all of our body movements. They also help the bones to move.
5. We would find sloping roofs in the places which have heavy rainfall.

## **CHAPTER-9**

### **AIR**

#### **Breather (Page 73)**

Smoke makes the air that you are breathing in dirty.

#### **Breather (Page 74)**

1. Oxygen
2. Water vapour
3. Germs
4. Smoke
5. Evaporation

**A.** Tick (✓) the correct answer.

1. (b)
2. (b)
3. (c)
4. (b)

**B.** Fill in the blanks with the given words.

1. sick
2. parks
3. plants
4. things
5. air

**C.** Write "True or False".

1. (T)
2. (T)
3. (F)
4. (T)
5. (F)

**D.** Answer these questions.

1. We can get fresh air in the parks and gardens.
2. Air contains water vapour, smoke, dust and germs.
3. We need air to breathe.
4. (a) Wind helps us in flying kites.  
(b) Wind helps gliders move and boat sail.  
(c) Wind also helps in winnowing.

### **HOTS QUESTION**

(Do yourself)

### **THINGS TO DO**

- A.** 1. SAILBOAT      2. WINDMILL  
3. STORM          4. PARACHUTE  
5. BREEZE
- B.** (Do yourself)

## **CHAPTER-10**

### **WATER**

#### **Breather**

1. RIVER   2. WELL   3. RAIN   4. SEA   5. LAKE

- A.** Tick (✓) the correct answer.  
1. (c)    2. (c)    3. (c)
- B.** Choose the correct word from the given brackets.  
1. unsafe   2. solid   3. germs   4. growing
- C.** Answer these questions.

1. Rain, River and Tube-wells are the sources of water.
2. Three forms of water are:-  
(i) Solid (ii) Liquid (iii) Gas
3. Some uses of water are as follows:-
  - ★ Water is used for drinking.
  - ★ Water is used for bathing.
  - ★ Water is used for cooking.
  - ★ Water is used for cleaning.
4. When the sun heats up the water, the water changes into water vapour and these water vapour rise up in the atmosphere and form clouds.
5. Clouds are formed when the water in the rivers, ponds, lakes and seas is heated up by the sun and the water gets converted into water vapour and these water vapour rises up in the atmosphere and forms clouds.

### **HOTS QUESTION**

(Do yourself)

### **THINGS TO DO**

- A.** 1. water 2. water 3. stream 4. ice
- B.** 1. RIVER 2. GERMS 3. RAIN  
4. DRINK 5. TAP

## CHAPTER-11

### THE SUN, LIGHT AND SHADOW

#### Breather

1. rise, set    2. germs    3. food    4. 150    5. hot

**A.** Tick (✓) the correct answer.

1. (b)    2. (a)    3. (b)

**B.** Match the following.

1. (d)    2. (a)    3. (b)    4. (e)    5. (c)

**C.** 1. False    2. True    3. True    4. False    5. False

**D.** Answer these questions.

1. When light cannot pass through an object, a shadow is formed.
2. The heat of the sun dries wet clothes, evaporates the water and also helps to ripe fruits.
3. If the light is above an object, the shadow will form under the object.

### HOTS QUESTION

(Do yourself)

### THINGS TO DO

Do yourself

### Test Paper-3

**A.** 1. (a)    2. (b)    3. (b)    4. (c)    5. (a)

**B.** 1. True    2. False    3. False    4. True    5. False

**C.** 1. Cooking, drinking    2. River, pond    3. Nitrogen, oxygen    4. Drying clothes, windmill



4. The Taj Mahal in Agra is made up of white marble.
5. Chemical substances that make up rocks.
6. The lead in a pencil is made from graphite.

**E.** Name the following.

1. Marble and Granite
2. Graphite
3. China clay
4. Coal
5. Marble and Sandstone

### **HOTS QUESTION**

(Do yourself)

### **THINGS TO DO**

- A.** MICA    DIAMOND    GOLD    COPPER  
SILVER    URANIUM    COAL
- B.** (Do yourself)                      **C.** (Do yourself)
- D.** (Do yourself)

## **CHAPTER-13**

### **GOING TO THE MOON**

#### **Breather**

Tick the pictures of the sun and the stars.

#### **Breather**

1. Full moon
2. Waxing gibbous moon
3. Waning crescent moon

**A.** Tick (✓) the correct answer.

1. (a)
2. (a)
3. (b)

**B.** Fill in the blanks with the given words.

1. Neil Armstrong
2. air



**E.** Answer these questions.

1. We need air to breathe.
2. The three forms of water are– solid, liquid and gas.
3. When an object blocks the path of light, shadow is formed on the opposite side of the light.
4. Rocks are made up of minerals.
5. There is no life on moon because there is no air and water on it.

**F.** Do it yourself

# PART-3

## CHAPTER-1

### LIVING AND NON-LIVING THINGS

#### Breather

1. Hen    2. Fins    3. Fish    4. Bottle

**A.** Tick (✓) the correct answer :

1. (c)    2. (c)    3. (a)    4. (c)

**B.** Write 'T' for true and 'F' for false statements :

1. (T)    2. (T)    3. (T)    4. (F)    5. (T)

**C.** Match the following adults with their babies by drawing lines :

1. (c)    2. (e)    3. (d)    4. (a)    5. (b)

**D.** Put the following things into proper columns :

Living Things:- Bird, Flower, Lion, Grass, Kitten.

Non-Living Things:- Pen, Computer, TV, Cooker, Water.

**E.** Answer the following questions :

1. The main sense organs of animals are ears, eyes, nose, tongue and skin.

2. Plants reproduce through seeds, leaves, roots and stems.

When the seed gets air, water and warmth, baby plant comes out and grows into new plant.

3. Animals move from one place to another in search of food, water and shelter.

4. Green plants make their own food with the help of air, water and sunlight. The process of

making food in plants is called photosynthesis.

5. No, plants do not have sense organs.

### HOTS QUESTION

(Do yourself)

### THINGS TO DO

A.

1.	O	W	L																
2.	S	H	E	E	P														
3.	B	E	A	R															
4.	E	L	E	P	H	A	N	T											
5.	P	I	G	E	O	N													

B. Do yourself

C. Do yourself

## CHAPTER-2

### PARTS OF A PLANT

#### Breather

1. carrot, radish      2. rice, onion  
3. potato, ginger      4. spinach, cabbage

A. Tick (✓) the correct answer :

1. (c)      2. (b)      3. (b)      4. (c)

B. Fill in the blanks :

1. stomata      2. Flowers      3. stem  
4. stem      5. green

C. Match the following parts of a plant with their functions by drawing lines :

1. (c)      2. (e)      3. (d)      4. (a)      5. (b)

D. Write 'T' for true and 'F' for false statements :

1. (T)      2. (F)      3. (T)      4. (T)      5. (T)

**E.** Answer the following questions :

1. Leaves look green due to the presence of a green substance called chlorophyll.
2. Germination is the growing of a seed into a new plant.
3. **Root** :- Root is the part of the plant that grows under the ground.

**Shoot** :- Shoot is the part of the plant that grows above the ground. The shoot bears branches, leaves, buds, flowers and fruits.

4. The two types of roots are the fibrous roots and tap roots.

**Fibrous Roots** :- When a number of roots grow from the lower end of the stem, they are known as fibrous roots.

**Tap Roots** :- When a main root grows from the lower end of the stem and many small roots grow from this main root, it is called tap root.

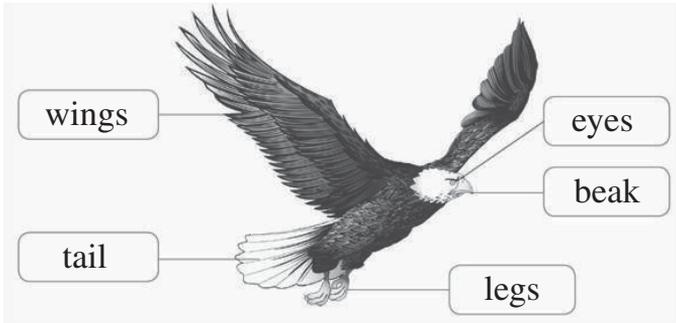
5. The main function of the stem is to carry water and mineral to the leaves.

### **HOTS QUESTION**

1. Pumpkin and watermelon both have weak stems.
2. Plants make food in the presence of sunlight through photosynthesis.
3. At night trees release carbon dioxide in place of oxygen. So we should not sleep under the tree at night.

## CHAPTER-3 THE WORLD OF BIRDS

### Breather



- A.** Tick (✓) the correct answer :
1. (a)    2. (a)    3. (a)    4. (c)    5. (b)
- B.** Write two examples of each of the following :
- |                |         |
|----------------|---------|
| 1. Kingfishers | Cranes  |
| 2. Vultures    | Eagles  |
| 3. Ducks       | Swans   |
| 4. Sparrow     | Pigeons |
- C.** Fill in the blanks :
1. Down    2. tail    3. Emu    4. wings    5. Hooked
- D.** Tick (✓) the correct word :
1. two    2. Beak    3. flesh
- E.** Write 'T' for true and 'F' for false statements :
1. (F)    2. (T)    3. (F)    4. (F)    5. (T)
- F.** Answer the following questions :
- The birds have light body because their bones are hollow and filled with air. This makes them light.
  - A bird has two kinds of feathers :-  
(a) Down feathers, (b) Flight feathers

- (a) **Down feathers** :- They are small light feathers that cover the bird's body.
  - (b) **Flight feathers** :- The feathers that are attached to the wings and tail of the bird are bigger in size and stronger.
3. A bird makes two kinds of movements during flight :-
- (a) Up stroke movement
  - (b) Down stroke movement
- During up stroke movement, the bird moves its wings upward and backward.
- During down stroke movement, the bird moves its wings downward and forward.
4. The birds of prey have talons because birds of prey hunt other animals and eat their flesh and their talons help them to catch and hold their prey and enable them to carry it away.
5. The swimming birds have skinny webs between the toes. These help the birds to push water away like paddles.

### **HOTS QUESTION**

(Do yourself)

### **THINGS TO DO**

- A. Read the clues and complete the given crossword.

**Across** : 1. Bat            2. Eagle    3. Kiwi

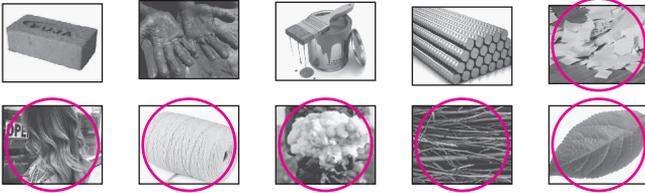
**Down** : 1. Beak        2. Owl        3. Emu

## CHAPTER-4

### NESTING HABITS OF BIRDS

#### Breather

Circle the things that are used by birds to make their nests.



A. Tick (✓) the correct answer :

1. (b)    2. (c)    3. (a)

B. Match the following :

1. (d)    2. (e)    3. (a)    4. (b)    5. (c)

C. Fill in the blanks :

1. Birds collect materials with their **beaks**.
2. A partridge makes its nest in the **ground**.
3. Birds keep their eggs **warm**.
4. The **Tailor bird** sews leaves with its beak.
5. The **woodpecker** makes a hole in the trunk of a tree.

D. Write 'T' for true and 'F' for false statements.

1. (F)    2. (T)    3. (T)    4. (F)

E. Write the name :

1. Nightingale    2. Vulture    3. Cuckoo  
4. Penguin

F. Answer the following questions.

1. To keep the birds warm, both the mother bird and father bird sit on the eggs one-by-one.

2. The cuckoo does not build its own nest.
3. The parents bring food for the baby birds. They feed their young ones. They make food into small pieces and push them into the mouth of the baby birds.
4. The birds build nests to lay eggs and to raise young ones.
5. Birds use different kinds of materials like grass, twigs, feathers, small pieces of papers, hair, leaves and pieces of clothes to build their nests.

### **HOTS QUESTION**

1. To keep their eggs and chicks safe.
2. Birds makes their nest on trees to protect their nest from animals and land insects.

### **THINGS TO DO**

- |               |            |         |
|---------------|------------|---------|
| 1. PARROT     | 2. PENGUIN |         |
| 3. SPARROW    | 4. TOUCAN  |         |
| 5. WOODPECKER | 6. DUCK    | 7. KIWI |

## **CHAPTER-5**

### **ANIMALS– FOOD AND FEEDING HABITS**

#### **Breather**

1. cow, buffalo
  2. fox, tiger
  3. dog, bear
  4. snake, frog
  5. cow, horse
- A.** Tick (✓) the correct answer :
1. (c)
  2. (b)
  3. (b)
  4. (b)

**B.** Fill in the blanks :

1. Animals that eat plants are called **herbivores**.
2. Animals that eat flesh are called **carnivores**.
3. Animals that eat both plants and flesh are called **omni-vores**.
4. Animals have **different** feeding habits.
5. We should take proper **care** of our domestic animals.

**C.** Write two examples of each of the following.

1. Cow, Goat
2. Tiger, Lion
3. Bear, Dog

**D.** Match the following animals with their food by drawing lines :

1. (c)
2. (e)
3. (d)
4. (a)
5. (b)

**E.** Write 'T' for true and 'F' for false statements :

1. (F)
2. (T)
3. (T)
4. (T)
5. (T)

**F.** Answer the following questions.

1. Animals that eat both plants and flesh are called omnivores.
2. A veterinarian treats sick animals.
3. Animals need food to stay alive, to grow and to get energy.
4. Animals that eat plants and grass are called herbivores.

### **HOTS QUESTION**

Elephants have a keen sense of smell, detecting water sources up to 19.2 km

The population of herbivores animals will increase rapidly.

## THINGS TO DO

**A.** Write 'H' for herbivores, 'C' for carnivores and 'O' for omnivores :

1. (C)    2. (H)    3. (O)    4. (C)    5. (H)  
6. (O)    7. (O)    8. (O)

**B.**

1. 

S	H	E	E	P
---	---	---	---	---
2. 

H	O	R	S	E
---	---	---	---	---
3. 

A	N	T
---	---	---
4. 

R	A	B	B	I	T
---	---	---	---	---	---
5. 

K	A	N	G	A	R	O	O
---	---	---	---	---	---	---	---

## TEST PAPER-1

- A.**
1. Animals need to take food to get energy and perform life processes.
  2. To keep them in their nest
  3. The process by which green plants and certain other organisms transform light energy into chemical energy.
  4. shoots are parts of the plant that grow above the ground, whereas roots are parts of the plant that grow below the ground.
  5. Cotton, straw, hairs, etc.
- B.**
1. plants    2. lungs    3. stomata    4. beak
  5. shallow hole in the ground
- C.**
1. Cow, horse    2. Dog, cat    3. Crane, heron
  4. Ostrich, Penguin    5. Carrot, beetroot
- D.** stomata, tap root, feather

## CHAPTER-6

### OUR BODY

#### Breather

1. muscles along with the bones
2. teeth
3. skeleton
4. skull
5. heart

**A.** Tick (✓) the correct answer:

1. (c)
2. (a)
3. (c)
4. (c)
5. (b)

**B.** Fill in the blanks.

1. We breathe in air through our **nose**.
2. joint
3. The body of an adult has **206** bones.
4. Muscles are attached to the **bones**.
5. The **heart** is a powerful pump.

**C.** Circle the odd one out and justify

1. heart
2. lungs
3. muscles
4. heart

**D.** Write 'T' for true and 'F' for false statements :

1. (F)
2. (T)
3. (T)
4. (T)
5. (T)

**E.** Answer the following questions.

1. The organs of excretory system help to throw out waste matter from the body in the form of urine and sweat.
2. The brain is called the master organ of the body because it controls the functions of all other organs of the body.
3. The main function of circulatory system is to transport oxygen, carbon dioxide, nutrients, and waste products from one organ to another.
4. Our body has five sense organs. They are—Eyes, ears, nose, tongue and skin.

5. The food that we eat goes into our mouth first where it is chewed into smaller pieces with the help of the teeth. Then it goes into the stomach. The stomach releases digestive juices that make the food soft. After about four hours, the food goes into the small intestine. The blood picks up the important nutrients from the digested food and carries it to all parts of the body.

### **HOTS QUESTION**

(Do yourself)

### **THINGS TO DO**

- A.** Write the functions of the following sense organs.
1. Tongue – It helps us to taste.
  2. Skin – It helps us to feel.
  3. Eyes – Help us to see.
  4. Nose – Helps us to smell.
  5. Ears – Help us to hear.
- B.** HEART

## **CHAPTER-7**

### **HOUSING**

#### **Breather**

1. cool, summer
  2. drainage
  3. It has wire nettings
  4. covered
  5. ventilators
- A.** Tick (✓) the correct answer :
1. (a)
  2. (a)

**B.** Write 'T' for true and 'F' for false statements :

1. (F)    2. (T)    3. (F)    4. (T)    5. (T)

**C.** Where would you find the following things in your house ?

- |                       |   |              |
|-----------------------|---|--------------|
| 1. Towel              | – | Bathroom     |
| 2. Gas cylinder       | – | Kitchen      |
| 3. Plates and glasses | – | Kitchen      |
| 4. Books              | – | Study room   |
| 5. Bed                | – | Bed room     |
| 6. Soap               | – | Bathroom     |
| 7. Cooker             | – | Kitchen      |
| 8. T.V.               | – | Drawing room |

**D.** Answer the following questions.

1. We all need a house to live in. A house protects us from heat, cold, rain and strong winds.
2. In a good house there are windows and doors to let in fresh air and sunlight.
3. There should be plants around a house. They keep the air clean.

### **THINGS TO DO**

**A.** Read these sentences and guess the rooms where they are :

- |                 |                 |
|-----------------|-----------------|
| 1. Study room   | 2. Kitchen      |
| 3. Dinning room | 4. Drawing room |
| 5. Bed room     |                 |

## **CHAPTER-8**

### **SAFETY RULES AND FIRST AID**

**A.** Tick (✓) the correct answer :

1. (b)    2. (b)    3. (c)

**B.** Fill in the blanks.

1. We should cross the road at the **zebra crossing**.
2. We should follow the **traffic signals**.
3. We should play **safe games**.
4. We should know about the **first aid**.
5. We should obey **safety rules** everywhere.

**C.** Match the following columns by drawing lines.

1. (b)    2. (c)    3. (d)    4. (e)    5. (a)

**D.** Write 'safe' or 'unsafe' next to each of the following.

- |           |           |           |
|-----------|-----------|-----------|
| 1. Unsafe | 2. Unsafe | 3. Safe   |
| 4. Unsafe | 5. Unsafe | 6. Unsafe |

**E.** Answer the following questions.

1. Safety means keeping away from danger.
2. We should not enter with loose nylon clothes in the kitchen as it can catch fire quickly.
3. We should not touch electrical appliances with wet hands as it gives us electric shock.
4. The immediate help given to an injured person before the doctor arrives is called first aid.

## **HOTS QUESTION**

(Do yourself)

## **CHAPTER-9 STAYING HEALTHY**

### **Breather**

1. Nose: Blow your nose gently
2. Ears: Use ear buds to clean

3. Eyes: Wash your eyes with clean water
  4. Teeth: Brush your teeth twice a day
  5. Tongue: Clean your tongue daily
  6. Mouth: Rinse your mouth before and after eating
  7. Hands: Wash your hands properly before and after each meal
- A.** Tick (✓) the correct answer :
1. (c)    2. (c)    3. (c)
- B.** Fill in the blanks.
1. We should use **ear buds** to clean ears.
  2. We should not **read** in dim light.
  3. **Bathing** is the best way to keep our body clean.
  4. We should **massage** our gums with our fingers.
  5. We should consult a **dentist** for a routine check up of teeth.
  6. Food gives us **strength**.
  7. **Body-building** foods help us to grow.
- C.** Tick (✓) the correct word.
1. relaxed    2. eyes    3. does not get
- D.** Name any two food items which help in each of the following.
1. Green leafy vegetables, fruits
  2. Wheat, sugar
  3. Milk, eggs
  4. Pulses, fish
- E.** Write 'T' for true and 'F' for false statements :
1. (T)    2. (F)    3. (T)    4. (T)    5. (F)
- F.** Answer the following questions.
1. By doing exercise we can improve our brain health, manage weight, strengthen our bones, and reduce the risk of disease.

2. We should keep our hands clean because it keeps us germ free.
3. Physically and mentally well being is referred to as good health.
4. Personal cleanliness means keeping our body parts and belongings clean.
5. A diet that contains all the nutrients in the proper amount is called a balanced diet.

### **THINGS TO DO**

Collect the pictures of various food items and paste them on a sheet of chart paper to make your own food chart as shown below:

Energy giving food – Bread, rice, wheat, potato, sugar etc.

Growth food – Pulses, milk, eggs, fish, nuts etc.

Protective food – Green leafy vegetables, fruits and milk.

### **TEST PAPER-2**

(Based on chapters 1 to 9)

- A.** Answer the following questions in one word.
1. Animals move from place to place in search of food.
  2. Soil and water
  3. Animals like vultures, wolves and hyenas are called scavengers.
  4. Birds gradually rises up to the air by flapping its wings up and down.
  5. Bones help us to move about and do different works.

**B.** Tick (✓) the correct word in the brackets.

1. Fibrous
2. Plants
3. a plant
4. weak
5. loud

**C.** Write five examples of each of the following.

1. Living things – Plants, Cat, Horse, Hen, Cow
2. Non-living things – Sun, Moon, Car, Rivers, Mountains.

**D.** Rearrange the letters to make each the name of a bird.

1. PENGUIN
2. PIGEON
3. SPARROW
4. CUCKOO
5. CROW

**E.** Write the breathing organs of the following.

1. Lungs
2. Stomata
3. Gills
4. Air holes
5. Skin

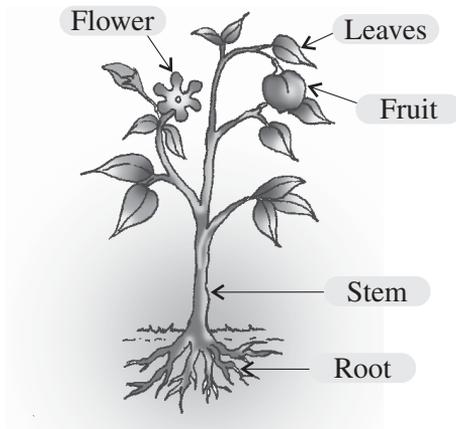
**F.** Answer the following questions.

1. Bedroom
2. Bathroom
3. Kitchen
4. Drawing room
5. Dininig room

**G.** Tick (✓) the correct answer.

1. (c)
2. (a)
3. (c)
4. (c)
5. (a)

**H.**



## CHAPTER-10

### SOIL

#### Breather

1. sun, wind, rain    2. humus; brown, black  
3. three              4. Sandy            5. Clayey

**A.** Tick (✓) the correct answer.

1. (b)    2. (a)    3. (b)    4. (a)

**B.** Fill in the blanks.

1. Plants grow on the **upper** layer of soil.
2. Farmers add **manure** to the soil.
3. Soil is formed from **rocks**.
4. **Sandy** soil holds very less water.
5. The decayed matter is called **humus**.
6. Loamy soil contains both **sand** and clay.
7. The bottom layer of soil is called **solid rock**.

**C.** Write 'T' for true and 'F' for false statements:

1. (F)    2. (F)    3. (F)    4. (F)    5. (T)

**D.** Match the following columns by drawing lines:

1. (a)    2. (d)    3. (e)    4. (c)    5. (b)

**E.** Answer the following questions.

1. Loamy soil is the best for growing crops.
2. Farmers add manure to the soil as it increases the fertility of the soil.
3. The Earth is made up of different kinds of rocks. By the actions of sun, wind and rain, these rocks break into small pieces. These small pieces of rocks are carried to other places by running water and strong winds. These pieces are further broken down in fine pieces,

which are carried away to distant places by water. They get deposited on the surface of land and become soil. Thus, soil is formed by the breaking of rocks.

4. The four main kinds of soil are – gravel, sandy soil, loamy soil and clayey soil.

## HOTS QUESTION

(Do yourself)

## THINGS TO DO

- A. 2. Sandy soil
- B. (Do yourself)

## CHAPTER-11

### AIR

#### Breather

Air contains:

1. NITROGEN
2. OXYGEN
3. CARBON
4. DUST
5. WATER
6. GERMS
7. SMOKE

- A. Tick (✓) the correct answer.

1. (b)
2. (a)
3. (c)
4. (a)

- B. Fill in the blanks.

1. People, animals and plants need **air** to live.
2. **Smoke, dust** and germs make air impure.
3. When we sleep, we should not **cover** our faces.
4. Slow moving air is called **breeze**.
5. **Fast** and **strong** wind can cause a storm.

C. Answer the following questions.

1. People, animals and plants need air.
2. Air contains water vapours, smoke, dust and germs.
3. Slow moving air is called breeze.
4. The wind dries clothes on a clothesline. It carries seeds of plants to new places. It makes a sail boat move on water.
5. Storms can damage houses, crops, trees and electric poles. So, it is harmful.

### HOTS QUESTION

1. In rainy season vaporisation of water does take place quickly from clothes.
2. During storm so many things present in air can hit to us. Also, dust, germs, etc., can create health problems.

### THINGS TO DO

Do Yourself

## CHAPTER-12

### WATER

#### Breather

No; It will dry.; Vaporisation takes place;  
Vaporisation

A. Tick (✓) the correct answer.

1. (b)    2. (c)    3. (a)    4. (c)

B. Fill in the blanks.

1. **Gas** has no shape.

2. Steam is the **liquid** form of water.
  3. Clouds fall on the earth as **rain**.
  4. **Ice** is the solid form of water.
  5. Water vapour is very **light**.
- C.** Write 'T' for true and 'F' for false statements.
1. (T)    2. (T)    3. (T)    4. (F)
- D.** What would happen.
1. if we heat water it gets hot and evaporated.
  2. if we cool water it becomes ice and it gets a shape.
  3. if we cool steam it changes back into water.
- E.** Define the following.
1. Evaporation – The process of changing water into water vapour is called evaporation.
  2. Condensation – The process of changing water back into water that is liquid form is called condensation.
- F.** Answer the following questions.
1. We need water for drinking, bathing, cooking, and cleaning.
  2. Gases has neither a definite shape nor volume while solid has definite shape and volume.
  3. When the clouds become very heavy, they fall on the earth in the form of rain. The rain water again goes to the ponds, lakes, rivers and oceans. It is again heated by the sun and changes into water vapour. This process is called water cycle.
  4. We all living things need water to remain alive.

5. The three forms of water are—  
 (i) Solid (ii) Liquid (iii) Gas

### HOTS QUESTION

- Dehydration is a condition caused by the loss of too much fluid from the body. It happens when you are losing more fluids than you are taking in, and your body does not have enough fluids to work properly.
- In winter, when the temperature starts falling down and reaches  $0^{\circ}\text{C}$ , the density of water drops suddenly and water in pipelines expands causing them to burst.

### THINGS TO DO

- A. Find the following words in the grid.

P	W	C	U	T	V	E	Y	L	V
O	C	E	A	N	G	O	B	A	E
L	S	D	H	X	V	Q	I	K	F
L	F	Z	S	F	W	A	T	E	R
U	Z	Q	F	M	E	T	A	P	E
T	G	O	I	H	L	L	N	G	E
I	K	P	L	Y	L	J	K	P	Z
O	Z	S	T	R	E	A	M	J	I
N	K	M	E	B	R	S	L	Q	N
M	I	Y	R	X	L	N	N	X	G

## CHAPTER-13

### THE WEATHER

#### Breather

1. Weather is the condition of atmosphere at a particular place for a short time.
  2. When the sun shines bright the weather is hot.
  3. In summer, the days are longer than the nights.
  4. Lack of rains causes drought.
- A.** Tick (✓) the correct answer.
1. (c)
  2. (c)
  3. (b)
  4. (c)
- B.** Fill in the blanks.
1. On a cloudy day, the **sunrays** cannot reach the earth.
  2. Plants shed their leaves in the spring season.
  3. season
  4. During rainy season, flies and **mosquitoes** multiply in large numbers.
  5. flood
- C.** Write 'T' for true and 'F' for false statements.
1. (F)
  2. (T)
  3. (T)
  4. (T)
  5. (F)
- D.** Answer the following questions.
1. The rays of the sun fall directly overhead at noon. That is why the noon is hotter than the morning and the evening.
  2. The weather in spring season is neither too hot nor too cold. It is very pleasant. There are beautiful flowers all around us. We love to go out on picnics. Spring season is so beautiful that it is called the queen of the seasons.
  3. Weather affects our ways of feeding habits,

clothing and other activities. For example, in summer, we take light food, while in winter we eat anything. Similarly, we take frequent baths in summer, while in winter we take bath once in a day.

4. Weather is the condition of the air around us at a particular place for a short time.
5. Cloudy nights are warmer than the clear nights because the clouds do not allow the heat of the earth to escape from the atmosphere.

### **HOTS QUESTION**

Do Yourself

### **THINGS TO DO**

- A.** rainy, winter, summer

## **CHAPTER-14**

### **THE SOLAR SYSTEM**

- A.** Tick (✓) the correct answer.  
1. (a)    2. (b)
- B.** Fill in the blanks.  
1. Jupiter  
2. **Pluto** is not a planet now.  
3. 365 days  
4. The sun is **bigger** than the Earth.
- C.** Write 'T' for true and 'F' for false statements.  
1. (F)    2. (T)    3. (T)    4. (F)    5. (F)  
6. (T)    7. (T)    8. (F)
- D.** Write the names of the following.  
1. Aryabhatta                      2. Mercury  
3. Jupiter                            3. Venus

**E.** Answer the following questions.

1. There are eight planets in the solar system. These are– Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.
2. The Earth makes two kinds of movements– rotation and revolution.
3. Do it yourself.

### **HOTS QUESTION**

In space, there are no molecules in the large empty areas between stars and planets. With no molecules in the vacuum of space there is no medium for the sound waves to travel through.

### **THINGS TO DO**

Solar system, Earth.

### **TEST PAPER-3**

- A.**
1. To make the soil fertile
  2. Humus is a dark, organic material that forms in soil when plant and animal matter decays.
  3. A light gentle wind
  4. Water is used: to (a) drink (b) water plants (c) bathing (d) clean floors (e) cook food
  5. A season is the part of a year that is distinguished by special climate conditions.
- B.** 1.top 2.storm 3.gaseous 4.autumn 5.Spring
- C.** 1.Jupiter 2.Mercury 3.Mercury 4.Neptune  
5.Venus
- D.** 1.False 2.False 3.True 4.False 5.False

## CHAPTER-15

### HEAVENLY BODIES IN OUTER SPACE

#### Breather

1. Yuri Gagarin      2. Rakesh Sharma    3. astronaut
  4. sun                      5. rays
- A.** Tick (✓) the correct answer.
1. (a)      2. (b)      3. (b)      4. (c)
- B.** Fill in the blanks.
1. A group of stars is called a **constellation**.
  2. The sun is a huge ball of **gases**.
  3. The moon changes its **shape** daily.
  4. When the moon is invisible, we call it **Amavasya**.
  5. The sun is the **closest** star to the earth.
  6. Name of the Pole star in Hindi is **Dhruv Tara**.
- C.** Write 'T' for true and 'F' for false statements.
1. (T)      2. (F)      3. (T)      4. (T)      5. (F)
- D.** Answer the following questions.
1. The moon has no light of its own. There is no air and water on the moon. So, it is a lifeless place.
  2. A group of stars is called a constellation.
  3. The sun gives us heat and light.

## CHAPTER-16

### LIGHT, SOUND AND FORCE

- A.** Tick (✓) the correct answer.
1. (c)      2. (b)      3. (c)

- B.** Write 'T' for true and 'F' for false statements.  
1. (T) 2. (F) 3. (T) 4. (F) 5. (T)
- C.** Match the following columns by drawing lines.  
1. (d) 2. (c) 3. (b) 4. (a)
- D.** Answer the following questions.
1. Light is a form of energy. It always travels in a straight line.
  2. Electric bulbs, candles, lamps, sun are luminous objects.
  3. Light travels in straight lines. These are called rays. When these rays are blocked by an object, the shadow of the object is formed.
  4. Solar eclipse always occurs on 'No moon' day (Amavasya).
  5. Force can change the shape, place and direction of an object.
- E.** Do it yourself.

## CHAPTER-17 MEASUREMENT

### Breather

1. 1      2. 1000    3. 60      4. hour    5. mL
- A.** Tick (✓) the correct answer.  
1. (a)    2. (b)    3. (b)    4. (b)    5. (b)
- B.** Fill in the blanks.
1. Weight is measured with the help of a **balances**.
  2. People in ancient time used to measure time with the help of the **position of the sun or stars**.

3. Liquids are measured by their **volume**.
  4. Small length can be measured with a **ruler**.
  5. Long distances are measured in **kilo metres or miles**.
- C.** Write 'T' for true and 'F' for false statements.
1. (T)    2. (F)    3. (T)    4. (T)    5. (T)
- D.** 1. kg    2. °C    3. Litre    4. kg    5. metre
6. litre
- E.** Complete the following.
1. Millilitres and litres are the units to measure volume.
  2. The body temperature of a normal human is  $37^{\circ}\text{C}$  or  $98.4^{\circ}\text{F}$ .
  3. Centimetres and Millimetres are the units of measuring lengths.
  4. A watch or clock tell us the time.

### **HOTS QUESTION**

1. It helps in checking us the exact or the scheduled time of the arrival and the departure of any train.
2. Because a medicine dropper is a medical device used to dispense liquid medicines in little quantities.

### **THINGS TO DO**

Write the names of the following.

Clock, Thermometer, Weighing machine.

## CHAPTER-18

### ROCKS AND MINERALS

#### Breather

1. The rate of cooling of lava determines the kind of rock that will be formed.
  2. Granite and pumice are the two important types of igneous rocks.
  3. Marbles are generally white in colour.
  4. Sandstone, shale and limestone are examples of sedimentary rocks.
  5. All rocks are made of substances called minerals.
- A.** Tick (✓) the correct answer.
1. (c)    2. (c)    3. (c)
- B.** Write 'T' for true and 'F' for false statements.
1. (T)    2. (T)    3. (F)    4. (T)
- C.** Answer the following questions.
1. Fossil fuel is a natural fuel such as coal or gas, formed in the geological past from the remains of living organisms.
  2. The Earth is made up of rocks.
  3. There are three kinds of rocks– Igneous, Sedimentary and Metamorphic rocks.
  4. Igneous rocks are formed from molten rock material or when the hot liquid mineral comes from deep inside the earth.

#### HOTS QUESTION

2. Because CNG is a pollution free fuel.

## THINGS TO DO

(Do yourself)

### TEST PAPER-4

(Based on chapters 10 to 18)

- A.** 1. in a dustbin      2. solid      3. breeze  
4. slow      5. full
- B.** 1. three  
2. metre, centimetre, km  
3. Using mm  
4. which produce light; candle, sun  
5. Loamy soil  
6. Without soil there will be no plants and trees on the earth  
7. the process by which a liquid turns into a gas  
8. To conserve water we should use a bucket to bathe and clean the floor, turn off the tap when brushing, use a can while watering plants, etc.  
9. eight planets; Mercury, Venus, Mars, Earth, Jupiter, Saturn, Uranus, and Neptune.  
10. Rotation along its axis
- C.** 1. (b) summer    2. (b) thermometer    3. (b) noon  
4. (c) paddy    5. (a) sun
- D.** 1. Mercury    2. Venus    3. Earth    4. Mars  
5. Jupiter    6. Saturn    7. Venus    8. Neptune
- F.** 1. Mercury, Venus  
2. Sedimentary rocks, igneous rocks  
3. Solid, liquid  
4. Nitrogen, oxygen  
5. Minerals, water



