

Delhi Public School, Gandhinagar

MY BUDDY

ENVIRONMENTAL SCIENCE

CLASS : 3

2021- 22

INDEX

S.NO.	NAME OF THE CHAPTER
	TERM I
1	CHAPTER- 1: Eating Habits of Animals
2	CHAPTER- 2: What are things made up of?
3	CHAPTER- 3: Rock and Soil
4	Revision Question for Periodic Test -I
5	Mock Test Paper for Periodic Test – I
6	CHAPTER- 4: Our Houses (ORAL)
7	CHAPTER- 5: Living and Non Living Things
8	CHAPTER- 6: Birds and Their Bodies
9	CHAPTER- 7: Nesting habits of Birds
10	Subject Enrichment Activity – I
11	Worksheet - I (based on chapter-10)
12	Mock Test Paper for Half Yearly exam
	Question Bank
	TERM II
13	CHAPTER- 8: Parts of a Plant
14	CHAPTER- 9: The Human Body
15	CHAPTER- 11: Light Sound and Force
16	Mock Test Paper for Periodic Test – II
17	Revision Question for Periodic Test -II
18	Worksheet - II (based on chapter-12)
19	CHAPTER- 13: The Earth
20	CHAPTER- 14: The Sun, Moon and Stars
21	CHAPTER-15: Air, Water and Weather
22	Subject Enrichment Activity – II
23	CHAPTER- 16: Our Environment
24	Practice Map of India
25	Mock Test Paper for Annual exam
26	Question Bank

CHAPTER 1

EATING HABITS OF ANIMALS

1) Observe the mouthparts of the following animals in the picture and write their eating habits:

A)



B)



C)



2) Name two animals that-

a) Swallow their food whole : _____

b) Catch insects: _____

c) Suck their food through hollow tube: _____

3) The pictures shown below is a jumbled food chain. Write their names correctly in the space provided:



_____ → _____ → _____ → _____ → _____



_____ → _____ → _____ → _____ → _____

AIL:

Draw a Food Chain and show the herbivore, carnivore or omnivore present in the food chain.

WORKSHEET

CHAPTER 2- WHAT ARE THINGS MADE OF?

Name: _____

Date: _____

Class/Sec: _____

Q1. Find the answers in the word grid and underline them with specified colour :

- a) Things we get from plants (green colour).
- b) Things we get from animals (yellow colour).
- c) Materials we get from Earth (blue colour).

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

Q2. Name two things made from the following materials:

a) rubber- _____

b) cotton- _____

c) metal _____

d) plastic _____

e) Petroleum _____

Marks: _____

Teacher's Sign _____

AIL:

Paste 2 pictures of things we get from plants, animals and Earth.

CHAPTER 3-ROCKS AND SOIL

CLASS ROOM ACTIVITIES:



1. Make a soil Profile (Layers of soil) and write your observations.

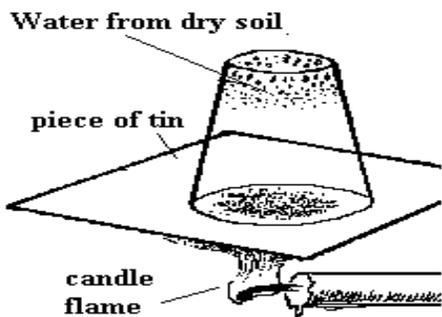
2. Experiment on Soil contains Air –

Observation:



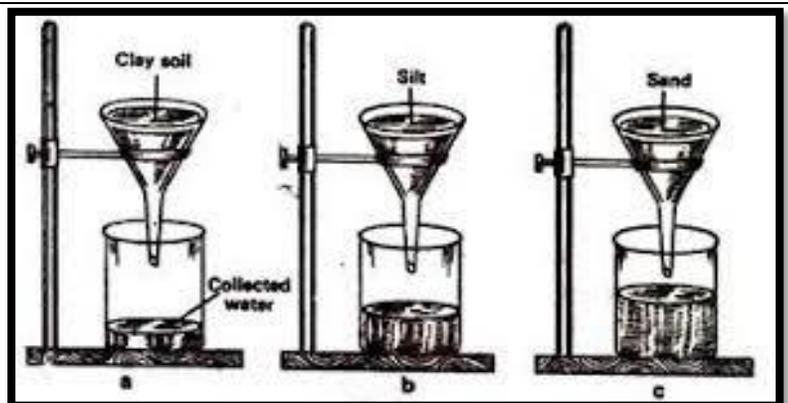
3. Experiment on Soil contains water

Observation:



4. Which soil contains more water

Observation:



1. Solve the crossword puzzle with the clues given:

ACROSS:

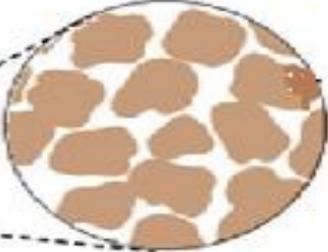
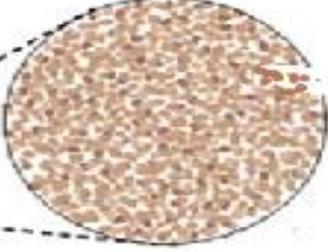
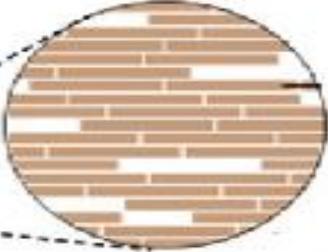
- 3. It is the hardest rock
- 6. These are tiny grains of which rocks are made up of.

DOWN:

- 1. It is a very hard rock.
- 2. Rotten plants and animal that are mixed in the soil.
- 4. Most plants grow well in this soil.
- 5. It is a soft rock that breaks easily.

			1. G	2. H			
	3. D		A	M			D
4. L							
			I	S	5. C		
6. M			E		A		S
					K		

2. Look at the particle size of the following soils, then write the type of soil:

Photo	Particle Size	
		A: _____
		B: _____
		C: _____

AIL : Make a soil profile using garden soil in old jam bottle observe different layer of soil.

Experiment: To observe the water holding capacity of different types of soil (Sandy, Clayey, Loamy).

REVISION QUESTIONS PT-I

Q-1) Fill in the blanks:

- a) _____ make their own food in their leaves.
- b) A food chain shows which _____ eats what in nature.

Q-2) Name the soft rock.

Q-3) What should we add to soil to make it more fertile?

Q-4) Define Humus.

Q-4) Name two materials that we from:

- a) Plants
- b) Animals
- c) Earth

Q-5) Differentiate between Herbivores and omnivores, along with examples.

Q-6) Where do we get paper from?

Q-7) How is soil formed?

MOCK TEST PAPER PERIODIC TEST-I

Instructions:

(i) *All the questions are compulsory.*

(ii) *Answer the questions as per the instructions.*

Q-I **Answer the following questions in one word or one sentence:** **10×1=10**

1. Give two examples of carnivore.
2. Name an insect that has a long hollow tube.
3. Which plant gives us cotton?
4. What are the things that are made from metals?
5. Give one useful property of plastic.
6. What are minerals?
7. Give two examples of animals that live in soil?
8. Which soil is used to make pots?
9. What is added to soil to make it fertile for plants?
10. Name an animal that does not chew its food.

Q-II **Answer the following questions in short:** **5×2=10**

1. What do you mean by carnivore? Give an example of carnivore.
2. Explain how plastics are useful as well as harmful.
3. Describe any two uses of soil.
4. Give two examples of things made of plastic and two things made of rubber.

Q-III **Answer the following questions in detail:** **2×3=06**

1. With the help of an example, explain what you understand by the term 'Food Chain'.
2. Describe soil formation.

Q-IV **Do as directed:** **1×4=04**

1. What does 'chewing the cud' mean? Give any two examples of animals that chew cud.

CHAPTER 4- OUR HOUSES (ORAL)

- 1) Utkarsh is moving to a new city. The new things that he must look for in his new house and the surroundings are shown in the pictures given below. Identify and write what they are in the space provided :



a) _____



b) _____



c) _____



d) _____

- 2) Look at the picture given below of two different types of houses and complete the sentences using clues given in brackets:



i) It is made up of _____,
_____, and _____.
(Mud/bricks/sticks/iron/straw/cement).

ii) This is a _____ (Bungalow/hut).



i) It is made up of _____,
_____, and _____.
(Mud/bricks/sticks/iron/straw/cement).

ii) This is a _____ (Bungalow/hut).

CHAPTER 05

LIVING AND NON LIVING THINGS

1) Match the following characteristics of living things with the pictures



Living things move.



Living things grow.



Living things eat.



Living things breathe.

1) Mala told Shikha that plants do not have sense organs but they do feel changes around them. Is Mala right or wrong? Support your answer with an example.

AIL : Lab activity: To observe the stomata in the biology lab.

Observe movement in plants (Mimosa pudica).

CHAPTER 6

BIRDS AND THEIR BODIES

1. Identify the bird. Write the kind of beak and its use:

Bird	Kind of beak	Use of beak
		
		
		
		

AIL : Collect feathers that have fallen off from birds and paste them in your scrap book.

CHAPTER 7: NESTING HABITS OF BIRDS

AIL : Make a nest with shredded paper.

1. The pictures show the stages in reproduction of a bird. Label the stages with the help of clues in the box:

Laying eggs ; sitting on eggs to keep the eggs warm; Building nest ; hatching of eggs.



a) _____



b) _____



c) _____



d) _____

SUBJECT ENRICHMENT ACTIVITY 1: Worksheet based on chapter 6 and 7 (10 marks)

WORKSHEET

CHAPTER 10: SAFETY AND FIRST AID

Name: _____

Date: _____

Class/Sec: _____

1) Fill in the blanks:

- a) An unexpected event that might lead to you being hurt is called an _____.
- b) Electrical things if not used carefully can give _____.
- c) The _____ colour traffic light tells you to WAIT.
- d) The first help that an injured person gets is called _____.
- e) If a person is hurt seriously we must call a _____.

2) Write one safety rule to be followed in the following places:

a) At Home:

b) In school:

c) On the Playground:

3) Write any two things that we must do if someone gets burnt.

AIL : Make a First Aid Box.

Marks: _____

Teacher's Sign _____

MOCK PAPER FOR HALF YEARLY EXAM

Instructions:

- (i) *All the questions are compulsory.*
- (ii) *Answer the questions as per the instructions.*

d) Human beings-

3. Explain the formation of soil.
4. Give two examples of plants that shows movement with explanation.
5. What kind of mouth parts do these animals have:
 - a) Carnivores
 - b) Frog
 - c) Mosquito
 - d) Butterfly

6. Write a short note on-
 - a) Clayey soil
 - b) Sandy soil

Q-V

Do as directed :

3×5=15

1. Explain how does a bird fly.
2. List five differences between living and non living things.
3. How do the following birds build their nests:
 - a) Tailor bird
 - b) Woodpecker
 - c) Swan
 - d) Swallows
 - e) Penguins

QUESTION BANK

CHAPTER 1-Eating habits of Animals

1. What does 'chewing the cud' mean? Give any two examples of animals that chew cud.
2. Describe the type of teeth carnivores have.
3. How does a frog catch its prey?
4. With the help of an example, explain what you understand by the term 'Food Chain'.

CHAPTER 2- What Are Things Made Of?

5. Where do we get paper from?
6. Give two examples of things we get from the following:
 - a) plants
 - b) animals
7. What do we get plastics from?

CHAPTER 3 –Rocks and Soil

8. What are minerals?
9. What is humus?
10. How does humus help the soil?
11. Name any two things that soil contains.
12. Describe how soil is formed.
13. What does soil contain?
14. How would you know that soil contains water?
15. How would you show that soil contains air?
16. Describe any two uses of soil.
17. Mona collected some garden soil in a plastic bag, tied the mouth with a string, and kept it in a room. After some time, she saw moisture inside the plastic bag. Where did this moisture come from?

CHAPTER 4 –Our Houses

18. What are the three essential features of a good house?
19. What could happen if we live in a dirty house?
20. Why should doors and windows of a house have wire nettings?

CHAPTER 5- Living and Non Living Things

21. Why do animals move from one place to another?
22. Do plants move from one place to another? Why or why not?
23. Why do living things need food?
24. How do plants respond to light?
25. How do living things breathe? Give any two examples.
26. How do plants breathe?
27. How do living things feel changes around them? Give two examples.
28. What is reproduction? How do plants reproduce?

CHAPTER 6-Birds and Their Bodies

29. Which body part helps a bird to fly?
30. What are three kinds of feathers birds have?
31. What do birds use to catch food?
32. What are talons?
33. Write any two functions of beak of a bird.
34. Write special features that help a bird to fly?
35. Explain with examples how different birds have different beaks depending upon the food they eat.
36. Describe the feet of ducks and geese.

CHAPTER 7-Nesting Habits of Birds

37. Why do birds build nests?
38. What do birds use to make nests?
39. How do these birds make their nests: a)Tailor bird b)Weaver bird?
40. What is hatching?
41. Define Migration.
42. Explain with example why do birds migrate?

Term II

DRAFT

CHAPTER 8

PARTS OF A PLANT

1) Identify and write the name of the plant part (in the space given) by reading the clues given in the box below:

Take water and minerals from the soil.

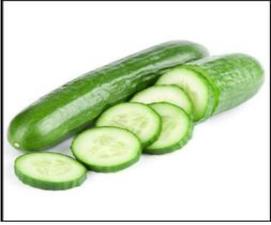
Make seeds & attracts bees.

Make food for the plant.

Moves water and minerals from the roots to the leaves.

**AIL : Paste a dried leaf and label its parts.
Observe parts of plants and kind of roots.**

2. Circle the correct plant part that we eat as these vegetables.



Cucumber

Fruit Stem Root Leaf Seed



Coriander

Fruit Stem Root Leaf Seed



Ginger

Fruit Stem Root Leaf Seed



Tomato

Fruit Stem Root Leaf Seed



Carrot

Fruit Stem Root Leaf Seed



Peas

Fruit Stem Root Leaf Seed

CHAPTER 9

THE HUMAN BODY

AIL : Visit to biology lab to see the human skeletal system.

Listen to the heart beat with the help of a Stethoscope.

Make a model of excretory system using kidney beans, balloon and thread (blue ,red, yellow).

Make a model of digestive system using food items.

1) Complete the table to show which organs carries out given function.

Brain	stomach	eyes	kidneys	small intestines	lung
-------	---------	------	---------	------------------	------

Organs	Functions
	Takes oxygen into the bloodstream
	Breaks down(digests) food
	Controls the body's functions
	Absorbs nutrients from food
	Produce urine
	Sense light

2) Draw a line to match each organs system with the organs it contains.

	Organ System
1.	Digestive
2.	Circulatory
3.	Excretory
4.	Sensory
5.	Nervous
6.	Respiratory

	Organs
a.	Stomach, intestines, pancreas
b.	Kidneys, liver, skin
c.	Ears, eye, nerves
d.	Heart, arteries, veins
e.	Trachea, lungs, diaphragm
f.	Brain, spinal cord nerves

CHAPTER 11

LIGHT, SOUND AND FORCE

1) Write push or pull for each picture:



AIL : Study the formation of a shadow of rabbit, eagle etc. using a torch.

MOCK TEST PAPER PERIODIC TEST-II

Instructions:

- (i) *All the questions are compulsory.*
- (ii) *Answer the questions as per the instructions.*

Q-I **Answer the following questions in one word or one sentence:** **10×1=10**

1. Name the plant in which food is stored in the leaves?
2. Give an example of fruit with more than one seed.
3. Which part of a plant has a baby plant inside it?
4. Name the plant having weak stem.
5. Write the function of heart.
6. Which sense organ helps you to see things?
7. What is the function of anus?
8. What are the special tubes that carry blood in body known as?
9. Give one word for loud and unpleasant sound.
10. A _____ is formed when an object blocks the path of light.

Q-II **Answer the following questions in short:** **5×2=10**

1. Write down any two things that stems do for the plant.
2. Name the two types of roots. Give one example of each.
3. Write the function of:
 - i) digestive system
 - ii) skeletal system
4. Give reasons: Brain is the most important organ in a human body.

Q-III **Answer the following questions in detail:** **2×3=06**

1. a) Draw a well labelled diagram of a leaf.

b) What is the function of stomata?

2. a) How is sound produced?

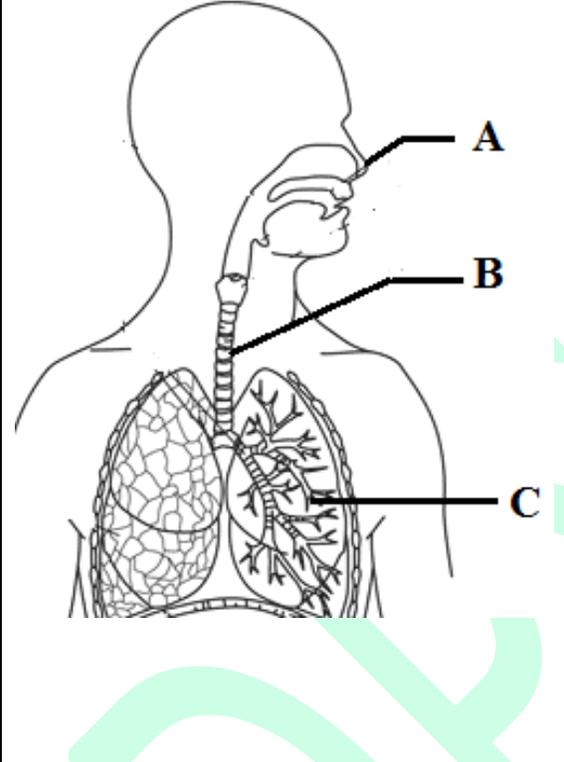
b) Define: (i) Reflection (ii) Noise

Q-IV

Do as directed:

1×4=04

1. Look at the picture given below and answer the following questions:

	a)	Label the parts A, B and C.
	Ans	
	b)	Identify and write the name of this system.
	Ans	
	c)	What is the function of this system?
	Ans	
	d)	Name the air we breathe in.
	Ans	

REVISION QUESTIONS PT-II

1. What are the two main parts of a plant?
2. What is a tap root? Give one example.
3. What is a fibrous root? Give one example.
4. Why are leaves known as the kitchen of the plant?
5. How do muscles help us?
6. Which organs make up the nervous system?
7. Write one word for each of the following.
 - A. The dark spot formed when the object blocks the path of light.
 - B. This organ of the body helps us to hear sounds.
8. What is the main source of heat and light on Earth?

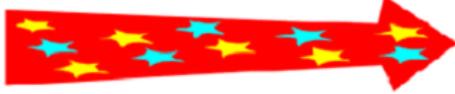
WORKSHEET

CHAPTER 12

1) Complete the given table for measuring the following things:

	Standard Units	Measuring Instruments
LENGTH		
WEIGHT		
VOLUME		
TIME		
TEMPERATURE		

Find the measurement of following by using ruler:

	About _____ cm
	About _____ cm
	About _____ cm
	About _____ cm
	About _____ cm

CHAPTER 13

THE EARTH

AIL : Explain the cause of Day and night using a globe and a torch.

1. Read each phrase and decide if it is describing Rotation or Revolution of the Earth and write it in the box provided.

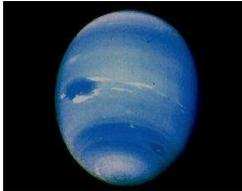
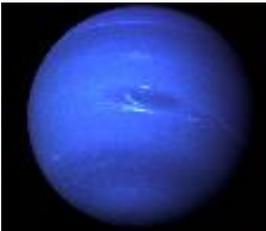
Takes one year to complete.	
Causes day and night.	
Follows a path known as Orbit.	
The Sun is the east in the morning, but in the west in the evening.	
When the Earth is facing the Sun it is day time.	
Causes change of seasons.	

CHAPTER 14

THE SUN, MOON AND STARS

AIL : Make cut out of phases of moon using a white paper and place them on ribbon strip.

1) Unscramble the name of planets and write it in the box provided:

	SUNVE	
	TRNUAS	
	PENENTU	
	RTEHA	
	UNASRU	

CHAPTER 15

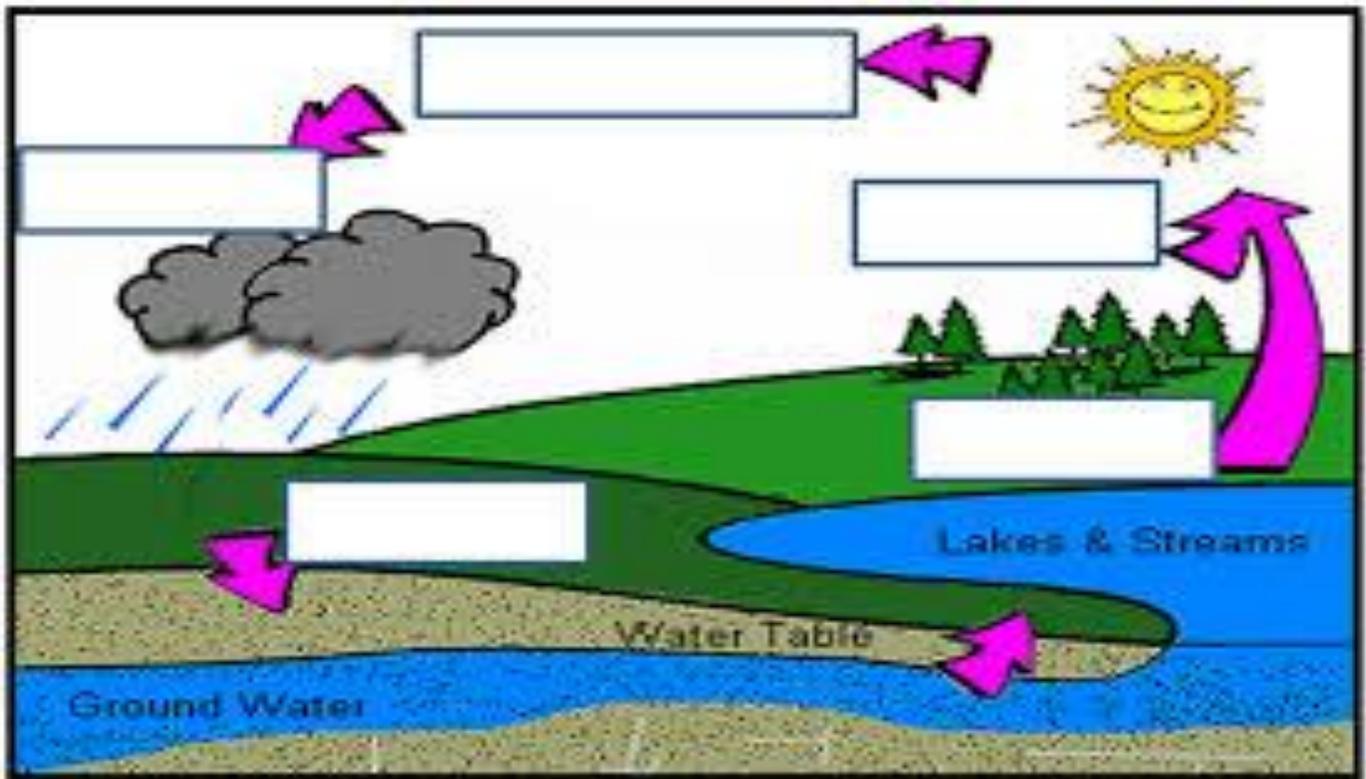
AIR, WATER AND WEATHER

AIL : Use of ice to show Condensation and Melting

Role Play on water -cycle.

1) Label the water cycle with the clues given in the box below:

Condensation, evaporation, formation of clouds, Rainfall, water- vapour rises up.



SEA 2: Worksheet based on chapter 14 and 15 (10 marks).

CHAPTER 16

OUR ENVIRONMENT

Draw a picture on any one topic:

- a) Pollution in cities OR**
- b) Pollution in village**

AIL : Make a collage showing contrast between pollution in cities verses pollution in villages.

➤ **EACH AND EVERY CONCEPT WILL BE REINFORCED BY VIDEO CLIPPINGS.**

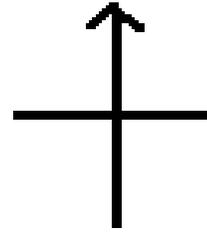


MAP OF INDIA

Mark the following on:

- i) Cities: Mumbai, Delhi, Kolkata, Chennai.**
- ii) Directions: North, South, East, West.**

India



ARABIAN
SEA

BAY OF
BENGAL

INDIAN
OCEAN

QUESTION BANK

CHAPTER 8–Parts of a plant

1. Write two examples for each of the following.
 - A. Roots we eat
 - B. Stems we eat
 - C. Leaves we eat
 - D. Fruits with many seeds
 - E. Edible seeds
2. Write one word for the following.
 - A. Parts of a plant below the ground
 - B. The thick and strong stem of big trees like mango tree
 - C. A lot of lines running across leaf
 - D. The green pigment in leaves
 - E. The growth of a seed into a new plant
3. What are the two main parts of a plant?
4. What is a tap root? Give one example.
5. What is a fibrous root? Give one example.
6. Why are leaves known as the kitchen of the plant?
7. Why are flowers important for a plant?
8. What are edible seeds? Give any two examples.
9. Give any three uses of roots.
10. Give any three uses of stems.
11. Give any three uses of leaves.

CHAPTER 9-The Human Body

12. Write two examples of each of the following.
 - A. Organs of the digestive system
 - B. Organs of the respiratory system
 - C. Organs of the nervous system
 - D. Organs of the circulatory system
 - E. Body wastes
13. Write one word for the following.
 - A. The building blocks of the body
 - B. The process of changing food into substances that the body can use
 - C. This organ tells the body what to do
 - D. These take instructions to body parts
 - E. This organ pumps blood to all organs of the body
14. How do muscles help us?
15. Which organs make up the nervous system?
16. Which organ system cleans the body by throwing out body wastes?
17. How does exercise help our body?
18. What is our skeletal system made up of? How does it help us?
19. What is digestion? Describe the organs of the digestive system and their functions.
20. Describe the organs of the respiratory system.

21. Describe the organs that make up our circulatory system.

CHAPTER 11- Light, sound and force

22. Write one word for each of the following.

C. The dark spot formed when the object blocks the path of light.

D. This organ of the body helps us to hear sounds.

23. What is the main source of heat and light on Earth?

24. What is a shadow? How is it formed?

25. Discuss the different kinds of sound around us.

26. What is force? How does it help us?

CHAPTER 13- The Earth

27. Write one word for the following.

A. The fixed path on which the Earth moves around the sun

B. Movement of the Earth that causes change of seasons.

28. What is the shape of the Earth?

29. Name the two movements of the Earth.

30. What is rotation? How long does the Earth take to make one rotation?

31. What is revolution? How long does the Earth take to make one revolution?

32. What causes day and night? Explain briefly.

33. Mention any three ways in which we have been causing harm to the environment.

34. Why does the sun seem to disappear at night?

CHAPTER 14- The Sun, Moon and stars

35. A group of stars that form a pattern in the sky.....

36. Write two examples of each of the following.

A. Planet

B. Constellation

37. What is a planet?

38. How many days does the moon take to complete one circle around the Earth?

39. What are constellations? Give one example.

40. How many planets are there in the solar system? Write down their names.

41. Does the moon have its own light?

CHAPTER 16- Our Environment

42. Define environment.

43. Define pollution.

44. Give two examples of pollutant.

45. Write a short note on how does water gets polluted?

46. What cause air pollution in cities?

47. How is air pollution harmful?

48. Give reason: Cities are more polluted than villages.

MOCK PAPER FOR ANNUAL EXAM

Instructions:

- (i) *All the questions are compulsory.*
- (ii) *Answer the questions as per the instructions.*

Q-I **Answer the following questions in one word:** **8×1=08**

1. Name the type of root in a hibiscus plant.
2. What is flat part of a leaf called?
3. Which sense organ is used to sense the taste of medicines?
4. Our body gets energy from_____.
5. Name the hottest layer of the Earth.
6. How many planets are there in our solar system?
7. Name any two things that pollute the water.
8. Who pulls the bones to make them to move ?.

Q-II **Answer the following questions in one or two sentence:** **6×2=12**

1. Name the two parts of a plant
2. What are climbers?
3. What happens in summer season?
4. Where does the moon gets its light from?
5. When does a seed grow into a new plant?
6. Define sense organ.

Q-III **Answer the following questions in short:** **7×3=21**

1. Write the functions of the following system:
 - a) Skeletal System
 - b) Nervous System
 - c) Reproductive System
2. Name the organs of the respiratory system.
3. Explain how we are able to see things?
4. What are constellations? Give two examples.
5. What happens to the food made by a plant?
6. Define(i) breeze, (ii) gale and (iii)storm
7. Give three reasons why is air more polluted in cities than cities .

Q-IV **Answer the following questions in detail:** **6×4=24**

1. Explain how sound is produced.
2. Describe the layers of the earth with a diagram.

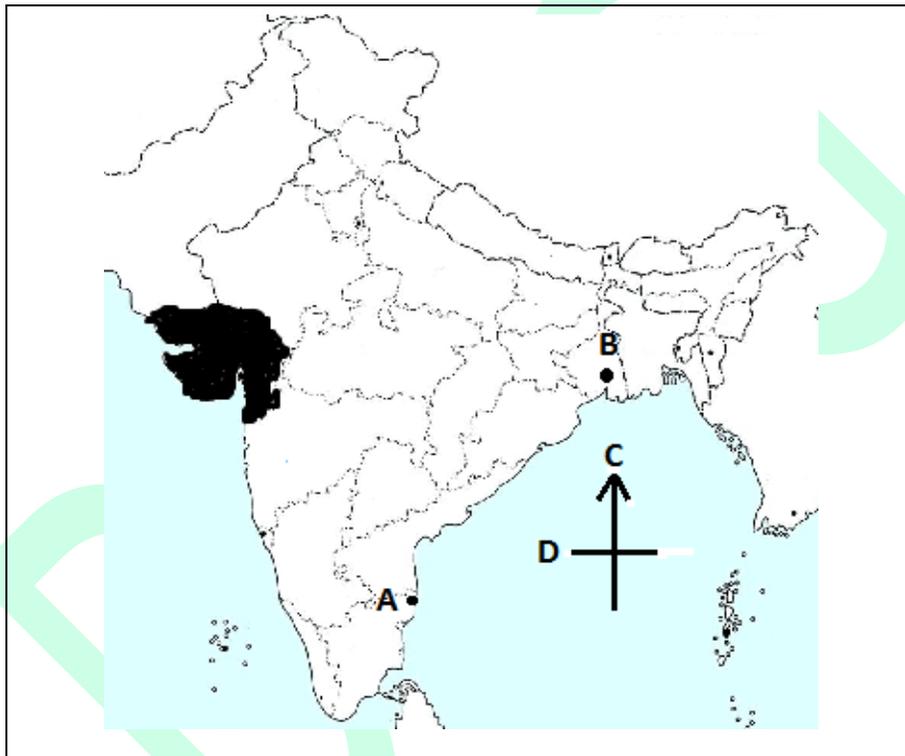
3. Name the first four planets of the solar system.
4. List the various phases of moon.
5. Differentiate between summer and winter season.
6. Explain the following:
 - (i) evaporation
 - (ii) condensation
 - (iii) freezing
 - (iv) melting

Q-V

Do as directed :

3×5=15

1. Draw a well labelled water cycle.
2. Differentiate between rotation and revolution.
3. **Identify the following marked on the map of India:**



- (i) Cities: A and B.
- (ii) Directions: C and D.
- (iii) State shaded in black.

➤ **EACH AND EVERY CONCEPT WILL BE REINFORCED BY VIDEO CLIPPINGS.**