



**DELHI PUBLIC SCHOOL-GANDHINAGAR**

**SESSION 2022-23**

**MY BUDDY**

**CLASS V**

**ENVIRONMENTAL SCIENCE**



## **INDEX**

Sr. No.	Lesson No.	Topics
		<b>TERM I</b>
1.	L-1.	MORE ABOUT PLANTS
2.	L-2.	ANIMALS AND THEIR ADAPTATIONS
3.	L-3.	THE SKELETAL AND MUSCULAR SYSTEM
4.	L-4.	THE NERVOUS SYSTEM
5.	L-5	GOOD HEALTH
6.	L-6	SAFETY AND FIRST AID
7.	L-7	ROCKS AND MINERALS
8.	-	Mock Paper –Periodic Test I
9.		QUESTION BANK
10.		CBE BASED –WORKSHEET-I
11.		HALF YEARLY EXAM MOCK PAPER
		<b>TERM II</b>
12.	L-8	SOIL
13.	L-9	STATES OF MATTER
		Mock Paper –Periodic Test I
14.	L-10	MORE ABOUT FORCE, ENERGY AND SIMPLE MCHINE
15.	L-11	AIR AND WATER
16.	L-12	EARTH, SUN AND MOON
17.	L-13	NATURAL DISASTERS
18.	L-14	CHANGES IN OUR ENVIRONMENT
19.		MAP-WORK

20.		QUESTION BANK
21.		CBE BASED –WORKSHEET-II
22.		ANNUAL EXAM MOCK PAPER

## L-1 MORE ABOUT PLANTS

**Nature walk -To look for plants that use various methods of dispersal.**

**Classify them in various methods of dispersal.**

**Activity- i) Germination of seed.**

**ii) Budding in Sweet potato/ginger/potato or growing plant of onion.**

<b>Q1. Which part of the following plants will help to obtain new plants :-</b>
a. Ginger-
b. Bryophyllum-
c. Money plant-
d. Ferns-
e. Carrot-

### Subject EnrichmentActivity- POSTER PRESENTATION

**FIND OUT THE TIME REQUIRED FOR THE FOLLOWING CROPS TO GROW AND HARVEST. RICE, WHEAT, MAIZE, PEARL MILLET, COTTON. ALSO WRITE WHAT TYPE OF SOIL IS REQUIRED**

#### Lets do it!

**Paste or draw the picture of one example of seed dispersal by the following methods.**

<b>a)Wind b)Water c)Explosion d)Animals</b>	
<b><u>WIND</u></b>	<b><u>WATER</u></b>
<b><u>EXPLOSION</u></b>	<b><u>ANIMALS</u></b>

**PONDER UPON IT!**

**Here is an image of hydroponic/ vertical farming. How it is useful for farmers?**



---

---

---

---

---

---

**CBE BASED QUESTIONS**

1. Study the seed shown below. By which method are they most likely to be dispersed the farthest away from their parent?



- a) By water
- b) By splitting/explosive action
- c) By wind
- d) By animals

2. The figure shows the leaf of a plant. Which process is shown here?

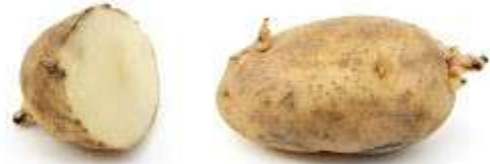


- a)Vegetative reproduction
- b) Nutrition
- c)Transportation
- d) Respiration**

3. Which figure shows reproduction through stem cutting?



onion



potato

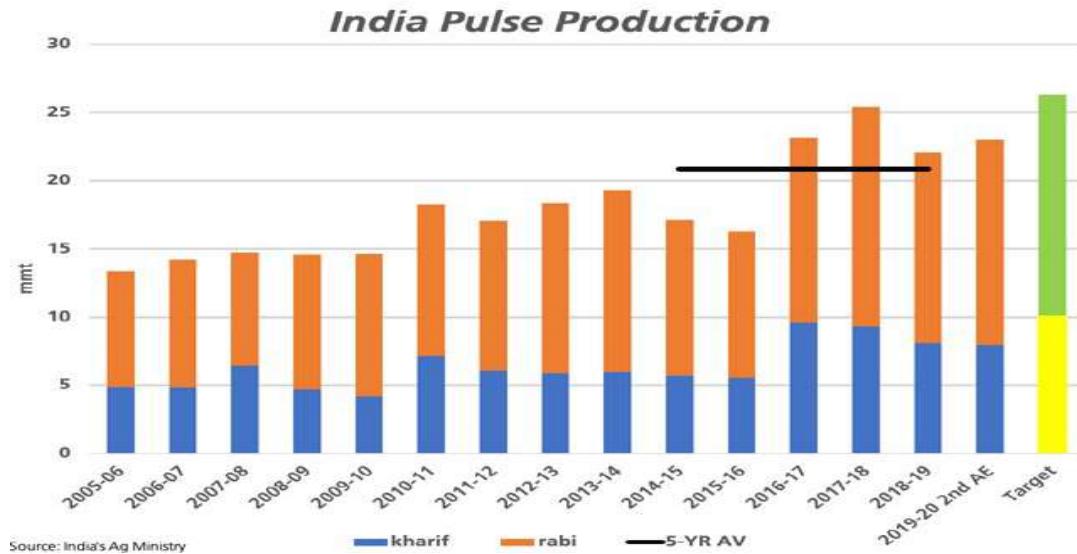


ginger



rose

4. Study the graph given below and answer the following questions



1) In which year there was highest production of pulses in India?

Ans. \_\_\_\_\_

2) In which year Kharif crop production is the least?

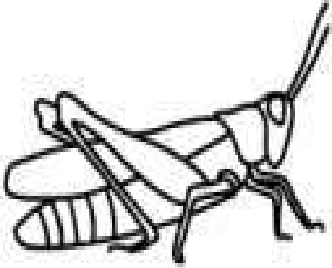
Ans. \_\_\_\_\_


**ITS MY EARTHACTIVITY:Grow a plant in a pot or in a grow bag.**

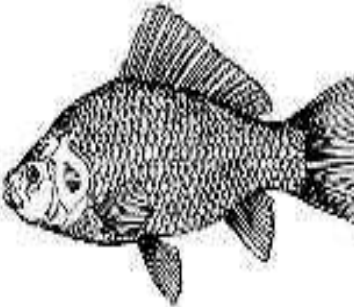
**L-2 ANIMALS AND THEIR ADAPATATIONS**


Q.How much do you know about these animals?



	Name		
	Is it a vertebrate or invertebrate?		
	How does it hop?		
	How does it breathe?		

Name:		
Is it an amphibian or reptile?		
Is it a vertebrate or invertebrate?		
How does it breathe?		
How does it swim in water?		

	Name:		
	Is it a vertebrate or invertebrate?		
	Which organ helps it to swim?		
	Where does it live?		
	How does it breathe?		
	What is its body covering?		

Name:		
Is it a vertebrate or invertebrate?		
Where does it live?		
How does it move in air?		
What is its body covering?		

**PONDER UPON IT**

**Humans have hunted animals for various reasons. What are your views on the hunting of animals for fur, leather or tusks?**

---



---



---



---



---



---

**MY WORK**

**ON A WORLD MAP SHOW THE MIGRATION PATH OF THE FOLLOWING ANIMALS: DRAGONFLIES, MONARCH BUTTERFLIES, ARCTIC TERN.**



**ITS MY EARTHACTIVITY: BUILD A NEST FOR BIRDS IN YOUR BALCONY AND KEEP A POT OF WATER OUTSIDE FOR THEM.**

**MY HOBBY ACTIVITY: COLLECT SOME SHELLS AND MAKE AN ART PIECE OUT OF THEM.**

**CBE BASED QUESTIONS:**

**Read the below given paragraph and tick the correct options.**

The conservation of the Indian rhinoceros or the greater one horned rhinoceros is regarded as a major success story. By the beginning of the 20<sup>th</sup> century, only around 200 rhinoceroses were left. To protect the rhinoceroses, the International Rhino foundation joined with Assam Forest Department, the World Wildlife Foundation and a few other partners to

launch the Indian Rhino Vision 2020. Due to the efforts that have been made, there are more than 2500 rhinos in India now.

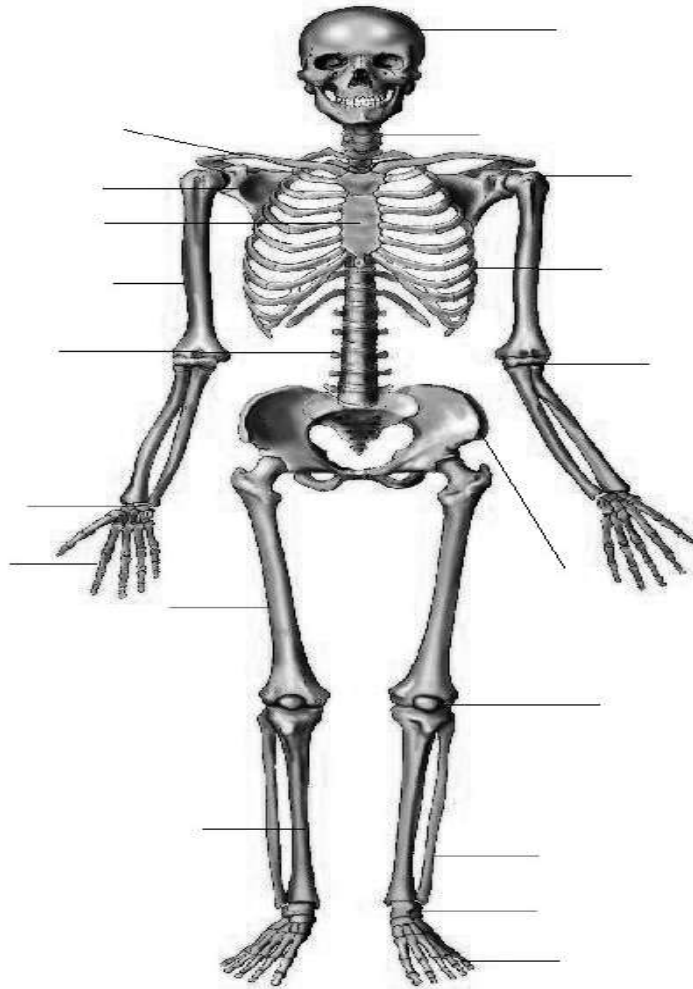
1. Rhinos are found in which state of India?
  - a) Gujarat
  - b) Maharashtra
  - c) Assam
  - d) Kerala
2. Why there was a need to save rhinos?
  - a) So that humans can get more rhinos to kill.
  - b) Number of rhinos had gone very down.
  - c) So that some rhinos can be sent to the other countries.
  - d) So that rhinos can kill lions.
3. Name any one agency that helped in protecting the rhinos.
  - a) World Wildlife Foundation
  - b) World Animal Foundation
  - c) World Wide Web
  - d) World Water Conserver
4. Around how many more rhinos are there now in comparison to early 20<sup>th</sup> century?
  - a) 2000
  - b) 500
  - c) 5000
  - d) 2300
5. If Assam: Rhinoceros, then Gujarat:?
  - a) Gir cow
  - b) Wild ass
  - c) Asiatic lion
  - d) Deer

## **Class V Summer Vacation H.W.**

Natural resources are not entirely free to use. The price we pay is by using them sustainably. Tamil Nadu is a pioneering Indian state that mandated the setting up of Rainwater Harvesting Systems (RWH) way back in 2001 when a water crisis hit the city of Chennai. 1. Paste any 2 pictures which show how RWH is done there. 2. Who is known as RAIN MAN of CHENNAI? 3. Name his NGO which has been working to encourage rainwater harvesting in the city for over two decades.

## **L-3 THE SKELETAL AND MUSCLAR SYSTEM**

- Lab visit-To study the model of Skeleton.
- Video show on working of Skeletal System.
- Identify and write the names of the Bones and Joints of human body in the given Skeleton.



Q.	Recognize these body parts and name them.
a.	I am made up of 33 small bones and protect the delicate spinal cord _____.
b.	I form a cage of 12 pairs of curved bones to protect the heart & lungs. _____
c.	I hold bones together and allow them to move. What am I? _____

d.	Tough bands of tissues that help muscles to attach to bones. _____
e.	The bones at the joints are held by strong, stretchy band called _____

**Art Integrated Learning: Learn a song on skeletal system and perform a dance on it.**

**PONDER UPON IT**

**Suppose your vertebral column was a single bone. How would this have affected you?**

---

---

---

---

---

---

---

---

**Let's Do It!**

**Role play on skeletal system (parts, functions, joints)**

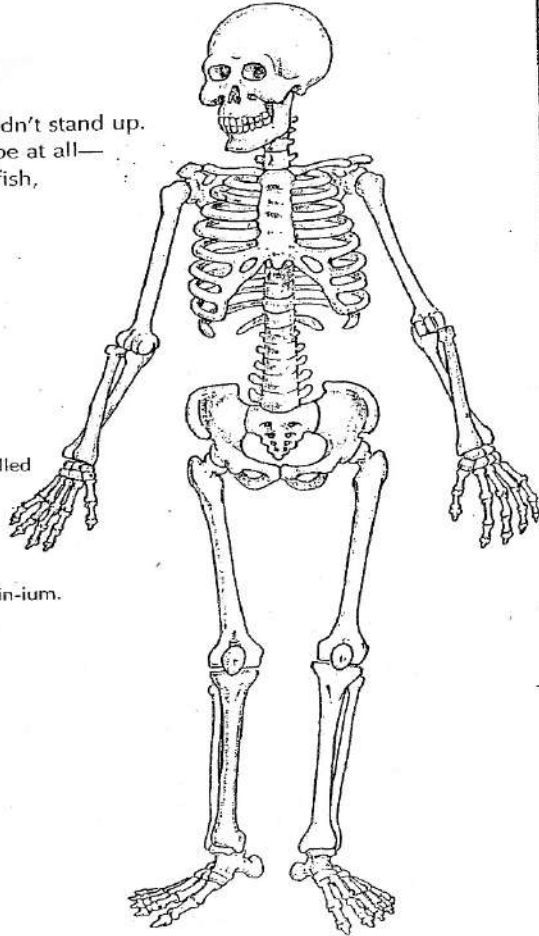
**CBE BASED QUESTIONS**

# Bones

Without your bones, you couldn't stand up.  
You wouldn't have much shape at all—  
Like a lump of clay, or a jellyfish,  
Or a punctured rubber ball.  
Yes, to give you shape  
And support your weight,  
Bones are absolutely great.  
Long bones, short bones,  
Big bones, small—  
You have 206 in all!

All the bones in your body are called  
your *skeleton*.

Ribs are like a vest  
You wear around your chest  
To protect your lungs and heart.  
Your cranium surrounds your brain-ium.  
Bones guard your softer parts.



**Read the above poem and tick the correct option.**

1. Which of the following is not the function of skeletal system?
  - a) Give support to our body.
  - b) Give colour to our body.
  - c) Give shape to our body.
  - d) Protect internal soft organs.
2. What would have happened if you had no bones?
  - a) I would have been like a horse.
  - b) I would have been like a tree.
  - c) I would have been like a punctured ball.



- d) I would have been like a scare crow.
3. Which part of your body is protected by ribs?
- a) Brain
  - b) Stomach
  - c) Small intestine
  - d) Heart
4. If you have fracture in the longest bone of your body, then you have problem in which part of your body?
- a) Upper hand
  - b) Back bone
  - c) Thigh bone
  - d) Lower leg
5. Gunjan fell from stairs. She injured her right knee. In X ray report, her bones were perfectly fine. Damage could be in
- a) Ligament
  - b) Bone marrow
  - c) Tendon
  - d) None of the above.

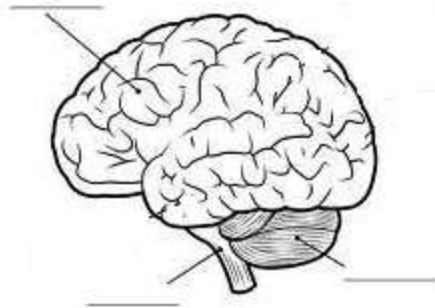
**MY HOBBY ACTIVITY:** Paste a thick chart paper on a cardboard sheet. Then, draw the different parts of the skeletal system. Cut out the parts and join the various pieces with paper clips to depict how joints help to join two bones and help in their movements. Use this model and show the different kinds of movement for each joint.

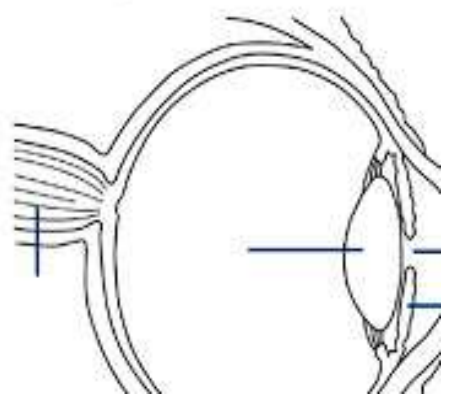
### **L-4 THE NERVOUS SYSTEM**

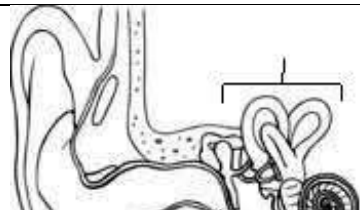
- **Video Show on working of Nervous System.**

- Lab Visit to show the models of Brain, Eye and Ear.

Label the diagrams given below and answer the questions:-

	Q1.	I am the control centre of the body. Who am I?
	Ans.	
	Q2.	It is the thinking parts of our brain. Name it.
	Ans.	
	Q3.	What are the automatic reactions of the body, for which we do not need to think called?
	Ans.	

Q1.	What is the coloured part of the eye called?	
Ans.		
Q2.	On which part of the eye images of objects are formed?	
Ans.		
Q3.	Name the nerve that takes the information to the brain.	
Ans.		

	Q1.	Why do we have two ears?
	Ans.	
	Q2.	Write the function of eardrum.

	Ans.	
	Q3.	How many bones are there in the middle ear?
	Ans.	

**Let's Do It!**

**ROLE PLAY ON FUNCTIONING OF NERVOUS SYSTEM.**

**MY HOBBY ACTIVITY: Make a model of brain using plasticine or dough.**

**PONDER UPON IT!**

**There are around 2,160,000 people in India who are autistic. They need special care. Find out how are they different from us?**

---



---



---



---



---



---

**CBE BASED QUESTIONS**

**Given below is the link of a YouTube video on nervous system. Watch it carefully and answer the following questions.**

**<https://youtu.be/spp9FbJZTGg>**

1. Which part of the brain keeps working even when we are sleeping?
  - a) cerebrum
  - b) cerebellum
  - c) brain stem (medulla)
  - d) none of the above.
2. Given below is a picture of telephone line and network.



If we compare this with our body, then which of the following will represent these wires?

- a) nerves
  - b) blood vessels
  - c) brain
  - d) bones
3. If our cerebellum is not working properly, then our movement will be

- a) Balanced
- b) Rhythmic
- c) Jerky like a puppet
- d) Controlled

4. Why are humans more intelligent than animals?

- a) Their cerebellum is bigger than human's.
- b) Their cerebrum is smaller than human's.
- c) Their brain stem is smaller than human's.
- d) Their cerebellum is smaller than human's.

5. We should not poke sharp things into our ears. It can damage our hearing. How?

- a) It will damage ear lobe.
- b) It will damage eardrum.
- c) It will damage brain.
- d) None of the above.

### **L-5GOOD HEALTH**

<b>Answer the following Questions:-</b>	
1.	Ramesh is working in field whereas Pradeep is working in an office. Who will need more carbohydrate? Why?
Ans.	
2.	Aadhya's mother is just back from her monthly shopping. Classify the food items she has brought in different methods of preservation and help her to store them properly in refrigerator or freezer or air tight containers.

	<b>Food Items</b>	<b>Methods</b>	<b>Storing Place</b>
	Papad		
	Pickles		
	Fruits& vegetables		
	Fish and meat		
	Cheese		
	Ice cream		
	Raisins		
	Rice		
	Baked pineapple		
	Sauce		
<b>3.</b>	<b>Let's be the Doctor.</b>		
	You are a doctor; patients come to you with following symptoms. What disease will you diagnose and what food items will you advise to take?		
	Patient 1: Has soft bow shaped legs which seem to be very brittle.		
Ans.			
	Patient 2: Swelling in the neck region.		
Ans.			
	Patient 3: Bleeding gums and swelling in joints.		
Ans.			
	Patient 4: Cannot see in dim light or at night.		
Ans.			
	Patient 5: His body is pale and gets tired easily.		
Ans.			

## **PONDER UPON IT!**

**FIND OUT THE PERCENTAGE OF MALNOURISHED CHILDREN IN THE FOLLOWING STATES: GUJARAT, RAJASTHAN, MADYAPRADESH, MAHARASHTRA, CHHATISGARH. WHAT CAN YOU DO TO STOP FOOD WASTAGE?**

---

---

---

---

---

---

---

---

---

---

**MY HOBBY ACTIVITY: Make a Food Magazine. (Use A4 size-coloured sheets, make a cover page, keep one page for one nutrient, paste the pictures of food items, nutrients they have and functions.)**

## **SUSTAINABLE DEVELOPMENT GOAL ACTIVITY**

- **GOOD HEALTH AND WELL BEING: MAKE A POSTER ON HEALTHY LIFE STYLE VS UNHEALTHY LIFE STYLE.**
- **ZERO HUNGER: DISTRIBUTE FOOD PACKETS AMONG POOR AND NEEDY CHILDREN, TAKE A PICTURE AND MAKE A COLLAGE.**

## **CBE BASED QUESTIONS**

1. Amol had four choices in food. Being a sports person, which food item will he choose so that its healthy for

him?



A



B



C



D

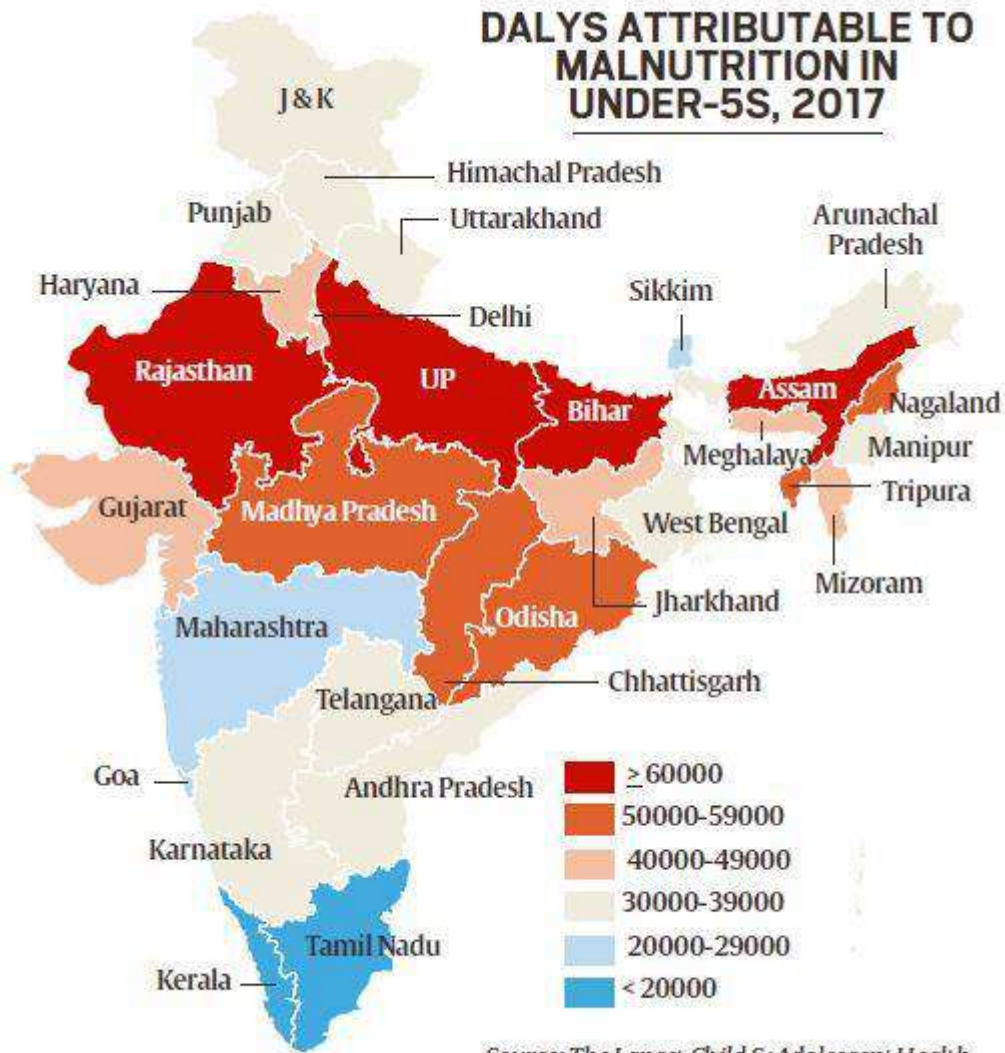
2. Given below are a few food items. On the basis of preservation, they belong to which group?





- a) canning
- b) deep freezing
- c) salting
- d) dehydration

Read the below given map and answer the questions.



3. Which states have the highest number of malnourished children?

- a) Rajasthan, UP, Madhya Pradesh, Odisha
- b) Maharashtra, UP, Madhya Pradesh, Odisha
- c) Rajasthan, UP, Madhya Pradesh, Bihar
- d) Rajasthan, UP, Assam, Bihar

4. Which states have the least number of malnourished children?

- a) Gujarat, Jharkhand
- b) Kerala, Maharashtra
- c) Tamil Nadu, Kerala
- d) Tamil Nadu, Goa

5. Around how many children are malnourished in Sikkim?

- a) 20000-29000
- b) 30000-39000
- c) More than or equal to 60000
- d) Less than 20000

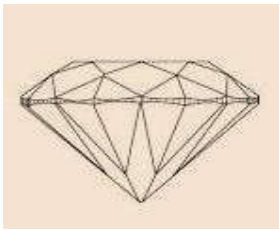
### L-6 Safety and First Aid

- **Classroom presentation-** Group role play on first aid to be given for various emergency situations.

### L-7 ROCKS AND MINERALS

**1. Classroom activity: - Making of Fossil and video show on formation of rocks**

**2. Identify the pictures below and write the name of the rock, metal or mineral it is made of .**



Ans.



Ans.



Ans.



Ans.



Ans.



Ans.



Ans.



Ans.



Ans.

**3. Match the following rocks with its correct type**

S.No.	Rocks	Type of Rocks
-------	-------	---------------

1	Conglomerate	Igneous rocks
2	Slate	Sedimentary rocks
3	Granite	Metamorphic rocks
4	Limestone	Igneous rocks
5	Marble	Sedimentary rocks
6	Pumice	Metamorphic rocks

**LET'S DO IT!**

**FIND OUT WHICH TYPE OF ROCKS ARE USED IN MAKING THE FOLLOWING MONUMENTS: MINAKSHI TEMPLE MADURAI, DILWARA TEMPLES, JAGANNATH TEMPLE, ADALAJ STEP WELL, RED FORT.**

**MEENAKSHI TEMPLE**



**DILWARA TEMPLE**



**JAGANNATH TEMPLE**





**ADALAJ STEP WELL**

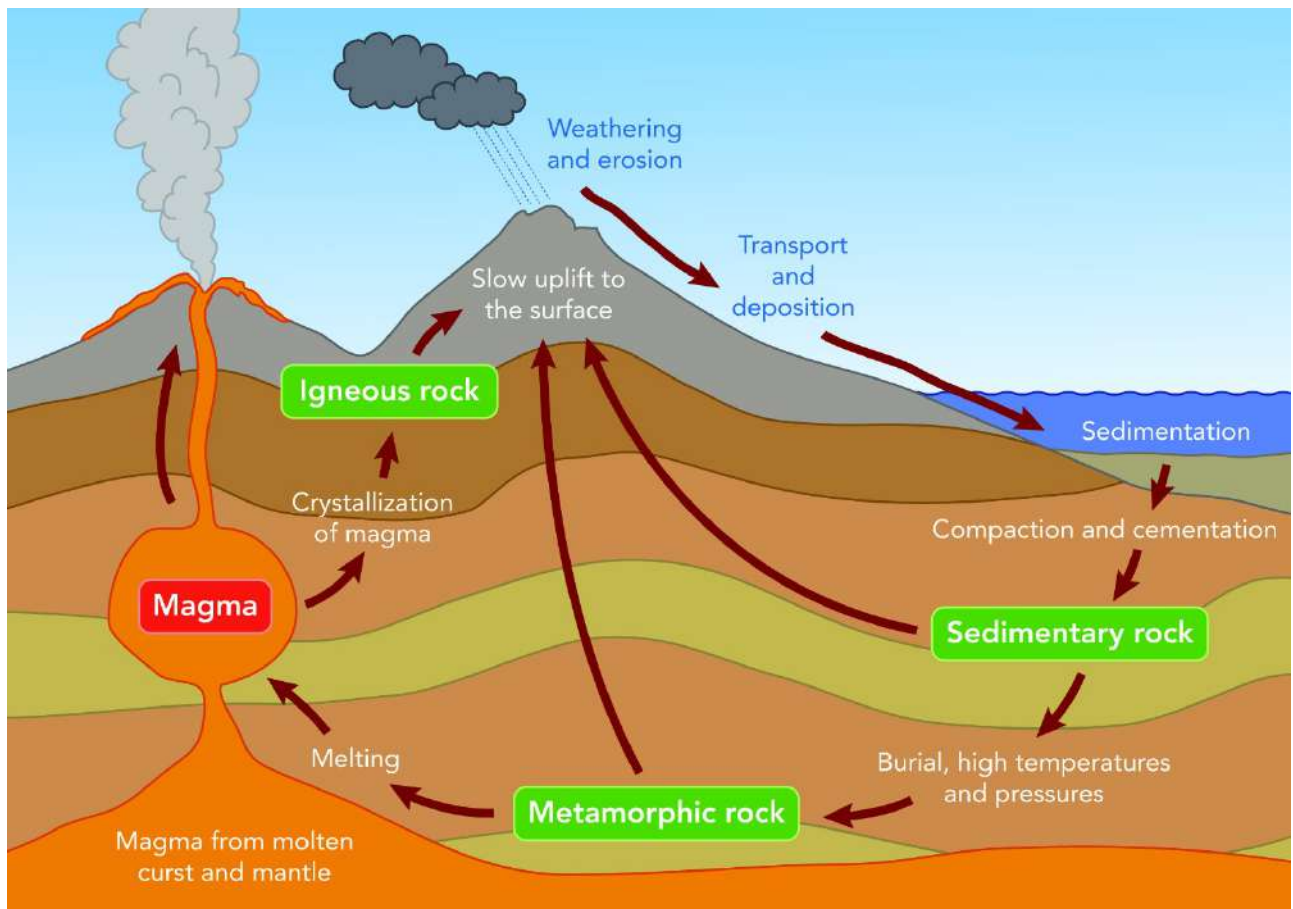


**RED FORT**



**CBE BASED QUESTIONS**

LOOK AT THE GIVEN DIAGRAM AND ANSWER THE BELOW GIVEN QUESTIONS.



1. which is the first rock or primary rock that is formed from magma?

- a) sedimentary rock
- b) igneous rock
- c) metamorphic rock
- d) none of the above

2. Igneous rocks to sedimentary rocks formation, what is the correct sequence of process?

- a) Weathering and erosion, sedimentation, transport and deposition, compaction and cementation.
- b) Weathering and erosion, transport and deposition, compaction and cementation, sedimentation.
- c) Sedimentation, Weathering and erosion, transport and deposition, compaction and cementation.
- d) Weathering and erosion, transport and deposition, sedimentation, compaction and cementation.

3. metamorphic rocks are formed from other rocks. What causes change in those rocks so that metamorphic rocks are formed?

- a) Only high temperature
- b) Only high pressure
- c) Only burial
- d) All of the above reasons.

4. If there is no volcanic eruption on the Earth, then what would happen?

- a) There will be no water on the Earth.
- b) There will be no earthquakes.
- c) There will be no minerals in the soil.
- d) There will be no rock formation.

5. Given below are some monuments. Find a relationship between them.



- a) They all are in India.
- b) They all are designed by the same architect.
- c) They all forts.
- d) They all are made up of sedimentary rocks.

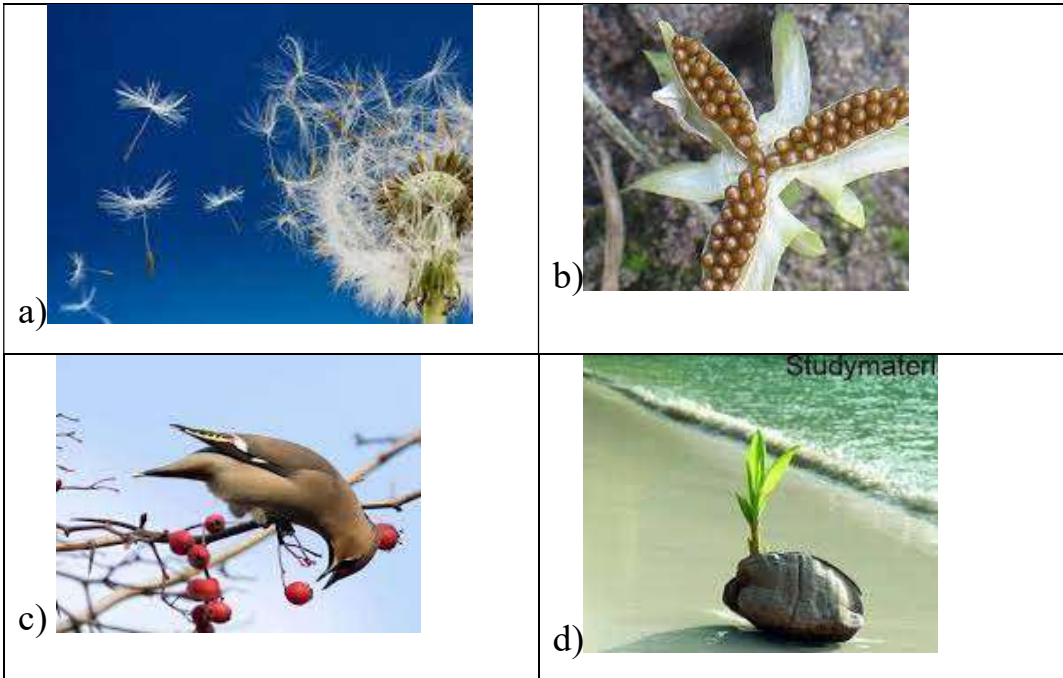


**PERIODIC I MOCK TEST PAPER L – 1&2**

**Q.I Tick the correct option.**

**6x1=6**

1. Which of the following will be dispersed by explosion?



2. If you are living near a water body, which type of seeds will you find the most?

- a) Seeds having hooks.
- b) Seeds that are spongy.
- c) Seeds that have wings.
- d) Seeds that have hair like structure.

3. When you soak a seed in water, which part of seed breaks?

- a) seedcoat
- b) cotyledon
- c) plumule
- d) embryo

4. If birds: lungs, then adult frog: ?




- a) nares
- b) lungs
- c) gills
- d) stomata

5. What is the similarity between a frog and a turtle?

- a) They both are amphibians.
- b) They both breathe through skin when in water.
- c) They both have webbed feet.

d) They both give birth to babies.

6. In which of the following teeth grow throughout their life?

<p>a)</p> 	<p>b)</p> 
<p>c)</p> 	<p>d)</p> <p><b>All of them</b></p>

**Q.II Do as directed :-**

1 Fill in the blanks. 2x1=2

a) Manure and fertilizers add \_\_\_\_\_ (water/nutrients) to soil.

b) \_\_\_\_\_ (snail/ crocodiles) have overlapping scales.

2 Give one word for the following. 2x1=2

a) Organ that helps in breathing in fish.

b) The part of the seed that grows into a new plant.

**Q.III Answer the following.**

1. Answer the following in short. 2x2=4

## Question Bank L-1 to L-7

a) Write the role of paired fins and unpaired fins in fish.

### **L-1 MORE ABOUT PLANTS**

b) Draw a well labelled dicot seed.

Q.I.

### **One word or one sentence answers**

2. Answer the following in detail.

2x3=6

1. Give one example of plants grow from root.

a) Write a short note on dispersal of seed by water and explosion.

2. Give an example of plant reproducing from leaves.

b) Explain the following body covering: shell, heaters, scales

**Q. II Short Questions: -**

1. Classify the following into Rabi & Kharif crops.
2. Rice, apple, banana, garlic, gourd, wheat, litchi, berry.
3. What is function of seed coat?

**Q.III Long Questions:-**

1. Explain the structure of a seed with the help of a diagram.
2. Draw a well labeled diagram of the process of germination.
3. Name three agents of seed dispersal. Give example of each.
4. List three ways by which plants reproduce.
5. Write any five things that you would keep in mind to grow a good crop.

**L-2 Animals and Their Adaptations**

**Q.I. One word or one sentence answers:-**

1. Moving organ of fish.
2. Define migration.

**Q.II Short Questions:-**

1. Why some birds like ostrich cannot fly?
2. Why do some animals migrate?

**Q.III Long Questions:-**

1. Write the body covering of following animals:-a. Turtle,b. reptiles, c. polar bear
2. How do the following animals move:- a. snakes,b.Humans,c. Rabbits,d. gazelles ,  
e.lizards
3. Name the breathing organs :- a.mammals ,b. frog, c.earthworms, d.insects, e. tadpoles

**L-3THE SKELETAL AND MUSCULAR SYSTEM**

**Q.I. One word or one sentence answers:-**

1. Name the joint present in your knees and elbow.

2. What holds the bones together at a joint?

**Q.II Short Questions:-**

1. What are tendons?
2. Define bone marrow.
3. What are floating ribs?

**Q.III Long Questions:-**

1. Write the functions of Skeletal system.
2. Name the four types of joints and give an example of each.
3. Write the difference between voluntary and involuntary muscles. Give one example of each.

#### **L-4 The Nervous System**

**Q.I One word or one sentence answers:-**

1. Which kind of nerve the information from your eye to the brain?
2. Which sense organ helps you tell the difference in sizes of objects?
3. What is the function of the eyelids?

**Q.II Short Questions:-**

1. What are reflex actions? Give example.
2. Write the difference between sensory nerve and motor nerve.
3. What is the function of spinal cord?

How is sound transferred through the ear to the brain?

**Q.III Long Questions:-**

1. Draw a well labeled diagram of brain and explain its parts.
2. Draw a well labeled diagram of eye and explain its parts.
3. Explain the different parts of ear.

## **L-5The Good Health**

### **Q.I. One word or one sentence answers:-**

1. Which nutrient helps to keep our body warm?
2. Two examples of canning as a method of preservation.

### **Q.II Short Questions:-**

1. Define Balanced diet.
2. What is immunity?
3. What are non-infectious diseases?

### **Q.III Long Questions:-**

1. How does roughage help us?
2. How do infectious diseases spread? Give two examples of each.
3. What are vaccines? How do they work?
4. Describe five types of nutrients. Give two example of each.
5. How does a food lose its nutrients?
6. Write the difference between infectious and non infectious diseases.
7. Write the sources, function and deficiency diseases caused by the following nutrients.
  - a. Vitamin D
  - b. Vitamin B
  - c. Iodine
  - d. Phosphorous

## **L 7 ROCKS AND MINERAL**

### **Q. I One word or one sentence answers:-**

1. The preserved materials or impressions in sedimentary rocks.

2. From which stone quartzite is made.
3. Name the following.
  - a. This rock is formed by slow cooling of magma.
  - b. This rock is glossy and dark coloured, has sharp edges when broken.
  - c. Chalk is made from this rock.

**Q.II Short Questions:-**

1. Write any two uses of petroleum.
2. Write two uses of coal.
3. Write the composition of the following Sedimentary rocks
  - a. Sandstone
  - b. Limestone
  - c. Conglomerate

**Q.III Long Questions:-**

1. How is petroleum formed?
2. Explain Sedimentary rocks. Give two examples.
3. Write one use of a. Quartzite, b. Granite , c. Coal ,d.Marble, e. Shale

**CBE BASED WORKSHEET**

- 1 Covishield is a \_\_\_\_\_.
  - a) medicine b) virus c) vaccine d) symptom of covid
- 2 Which of the following is a metallic mineral?

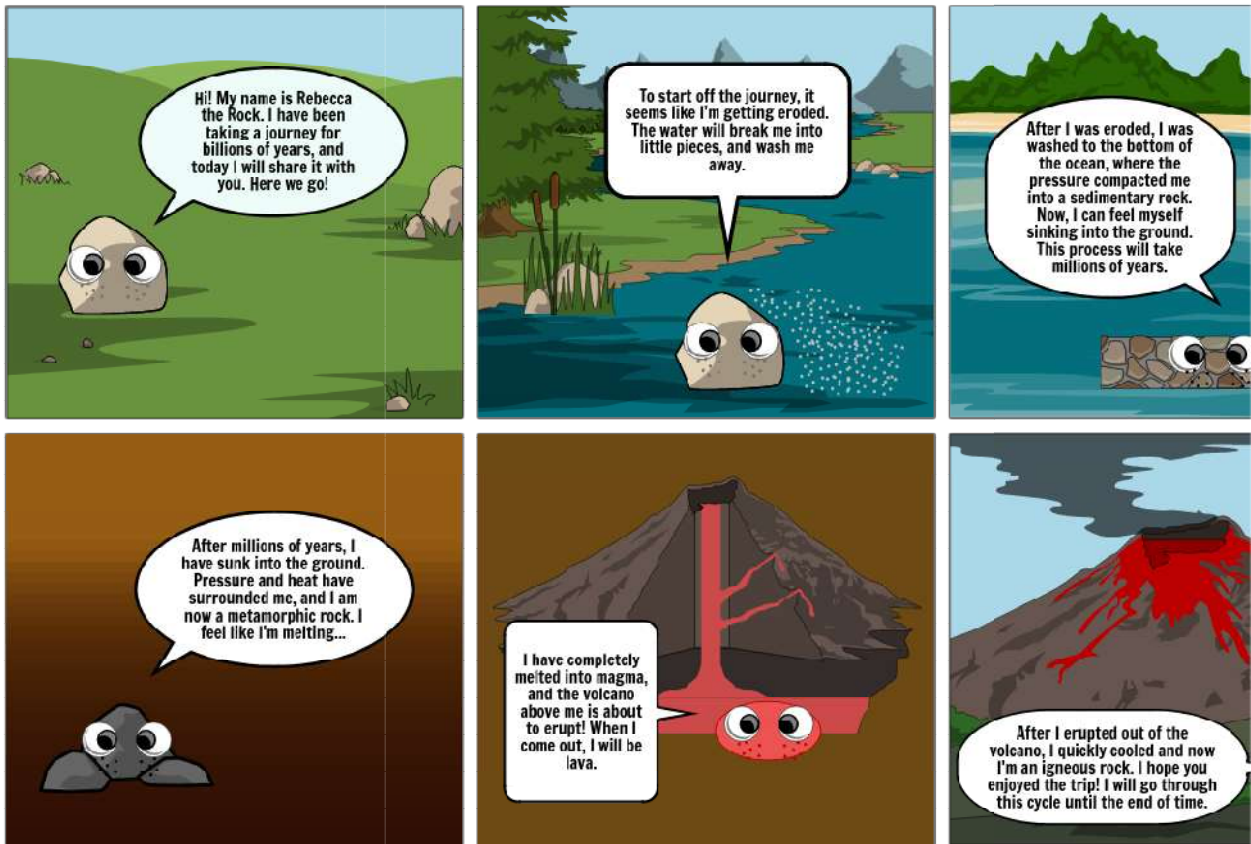




d)

**All of ther**

Read the given sstory and answer the following questions. (Q3, 4 and 5)



Create your own at Storyboard That

- 3 How many years does it take to form a rock?
  - a) one thousand years
  - b) one lakh years
  - c) billions of years
  - d) millions of years
- 4 Who broke Rebecca into pieces?
  - a) other rocks b) water c) man d) animals
- 5 Who surrounded Rebecca to convert it into metamorphic rock?
  - a) heat b) water c) pressure d) heat and pressure both.
- 6 Which process is shown here?

	<b>HALF YEARLY EXAM MOCK PAPER</b>	
--	------------------------------------	--



a) sowing seeds   b) irrigation   c) adding manure   d) ploughing

7 Which is the only sense organ which can work even when the object is far from it.



a) nose   b) eyes   c) tongue   d) skin

8 We all know the story “The Tortoise and the Hare”. Tortoise was slower than hare. If

same race being conducted in water, who will be faster and why?





- a) Tortoise because it has fins.
- b) Hare because it has locomotory organs developed for swimming.
- c) Tortoise because it has flippers developed for swimming.
- d) Both will reach the finish line at the same time.

9 If you want to have 360 degree movement of your head like an owl, which type of joint you should have between your skull and backbone?

a) pivote joint   b) hinge joint   c) ball and socket joint   d) gliding joint

10 Aaradhya is a mother of six month old baby Sadhya. What could be the difference in the number of bones in their bodies?













a) 85-90   b) 100-106   c) 75-85   d) 94-99

Q.I	Tick the correct option.	20×1=20
1.	Dwiti is a good swimmer. She is going to participate in an International Swimming Competition for which she needs to have good muscles. Which food option is best for her to develop muscles?	
	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%; text-align: center;"> <p>a)</p>  </div> <div style="width: 50%; text-align: center;"> <p>b)</p>  </div> <div style="width: 50%; text-align: center;"> <p>c)</p>  </div> <div style="width: 50%; text-align: center;"> <p>d)</p>  </div> </div>	
2.	If an engineer has to make a stone bridge which can float on water, which rock should be used?	
	a) granite    b) obsidian    c) pumice    d) marble	
3.	In a food pyramid, which food item is on the top?	
	a) minerals    b) fat    c) carbohydrate    d) protein	
4.	Name the parent rock of the rock used in making the Taj Mahal.	
	a) sand stone    b) obsidian    c) lime stone    d) marble	
5.	If you have to classify the following icons into a group, then they will be put in which group?	






gg78520574 www.gograph.com

		a) symptoms b) vaccination c) disease d) prevention					
6.		If hip joint: ball and socket, then wrist: ?					
		a) gliding b) pivot c) hinge d) ball and socket.					
7.		In which part of nose,nerve cells are present?					
		a) upper part b) lower part c) middle part d) inner part					
8.		Which of these does not grow from root?					
		<table border="1"> <tr> <td>a) </td> <td>b) </td> </tr> <tr> <td>c) </td> <td>d) </td> </tr> </table>	a) 	b) 	c) 	d) 	
a) 	b) 						
c) 	d) 						
9		Which of the following is also called the black rock?					
		a) coal b) magnetite c) bauxite d) petroleum					
10		Optic nerves are attached to tiny nerves. These tiny nerves are on the _____.					
		a) lens b) retina c) pupil d) iris					
11		Identify the type of animal on the basis of denture shown below.					



		a) herbivore b) carnivore c) omnivore d) parasite	
12	Cinni has weak bones. She moves around on wheel chair. She has two friends who always come to play with here. What values do her friends have?		
		a) They are sympathetic. b) They are caring. c) They are egoistic. d) Both a and b.	
13	Identify the disease.		
			
		a) goiter b) anaemia c) scurvy d) rickets	
14	Which of the following muscles are present only in one organ of our body?		
		a) smooth muscle b)voluntary muscle c) cardiac muscle d)skeletal muscle	
15	If black board: slate, then glass:?		
		a) marble b) quartzite c) obsidian d) basalt	
16	Which of the following group of plants is odd?		

		<p>a) beetroot, radish, turnip</p> <p>b) potato, sugarcane, rose</p> <p>c) mushroom, fern</p> <p>d) money plant, bryophyllum, sweet potato</p>	
	17	Why do we need ribs?	
		<p>a) to give shape to the body.</p> <p>b) to give support to the body.</p> <p>c) to protect lungs and heart.</p> <p>d) all of these.</p>	
	18	Which of the following animals has bones filled with air?	
		a) hen b) bat c) lion d) humans	
	19	Which of the following are striated muscles?	
		<p>a) muscles in heart</p> <p>b) muscles in brain</p> <p>c) muscles in hand</p> <p>d) muscles in stomach</p>	
	20	What is true about roughage?	
		<p>a) helps to grow.</p> <p>b) give us energy.</p> <p>c) helps in removing waste material.</p> <p>d) required to form strong bones.</p>	
<b>Q.II</b>		<b>Do as directed</b>	
	1.	<p><b>Fill in the blanks.</b></p> <p>i) Mustered is a major _____ (rabi/ kharif) crop of India.</p> <p>ii) Urea and ammonia sulphate are examples of _____ (manure/ fertilizers)</p>	<b>4x1=4</b>

	iii) The urinary bladder lies in the _____ (hip girdle/ rib cage) iv) _____ is a spongy tissue inside the bones which produces red blood cells.	
--	--	--

2.	<b>Match the following.</b> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Column A</th> <th>Column B</th> </tr> </thead> <tbody> <tr> <td>i) Spinal column</td> <td>a) Heart and lungs</td> </tr> <tr> <td>ii) Rib cage</td> <td>b) 12</td> </tr> <tr> <td>iii) Pair of ribs</td> <td>c) Brain</td> </tr> <tr> <td>iv) Skull</td> <td>d) 33</td> </tr> </tbody> </table>	Column A	Column B	i) Spinal column	a) Heart and lungs	ii) Rib cage	b) 12	iii) Pair of ribs	c) Brain	iv) Skull	d) 33	4x1/2=2
Column A	Column B											
i) Spinal column	a) Heart and lungs											
ii) Rib cage	b) 12											
iii) Pair of ribs	c) Brain											
iv) Skull	d) 33											

3.	<b>Write true or false.</b> i) Marble is made up of sandstone. ii) Electricity generated from coal is called hydal energy. iii) Kharif crops depend on monsoon. iv) Maize is a monocot.	4x1/2=2
----	---	---------

4.	<b>Complete the concept map.</b> <div style="text-align: center;"> <pre> graph TD     A[Things required by a seed for germination] --- B[a) Air]     A --- C[b) _____]     A --- D[c) _____]           </pre> </div>	2x1=2
----	---	-------

<b>Q.II</b>	<b>Answer the following.</b>	
-------------	------------------------------	--

1.	<b>Answer the following in short.</b>	3x2=6
----	---------------------------------------	-------

	Define: a) Ligaments      b) Bone marrow	
--	--	--

	Give two reasons why some birds like Ostrich cannot fly?	
--	--	--



	Differentiate between sensory nerves and motor nerves.	
2.	<b>Answer the following in detail.</b>	<b>2x3=6</b>
	a) Write any three uses of rocks.	
	b) i) What is migration?	
	ii) Give any two reasons why animals migrate.	
3.	Look at the picture and answer the following questions.	<b>2x4=8</b>
	A) <div data-bbox="548 646 912 940" data-label="Diagram"> </div>	
	a) What is the coloured part of the eye called?	
	b) On which part of the eye images of objects are formed?	
	c) Name the nerve that takes the information to the brain.	
	d) What is the space in the centre of the iris (through which the light passes) called?	
	B) <div data-bbox="344 1335 1003 1906" data-label="Image"> </div>	

	<p>i) Name the disease shown here.</p> <p>ii) Deficiency of which mineral or vitamin causes this disease?</p> <p>iii) Name any two food items added in the diet to overcome this disease.</p>	
--	---	--

## TERM 2

### L-8 SOIL

Q.1 Give three reasons why soil is important?
1.
2.
3.
Q.2. Which kind of soil has the most humus?
a) red clay soil
b) sandy pond soil
c) dark forest soil
d) bedrock
Q.3 There are two components of soil one that comes from living thing and other from non-living thing. What are these two components?
1.
2.

## AIP- HOLIDAY HOMEWORK

### AIL

**Make a model of soil profile.( group activity)**

Q.4 Identify the causes of soil erosion-



Q.5 Identify the ways of soil conservation-





---

## L-9 STATES OF MATTER

Q.1. Choose the correct option-

1.  
In the rainy seasons, there is a lot of humidity. Which phenomenon is the reason behind this?

- A) evaporation
- B) melting
- C) condensation
- D) boiling

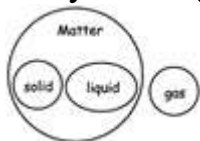
2. Read the statements carefully and choose the correct option.

Statement A: In solids the molecules are packed the closest together.

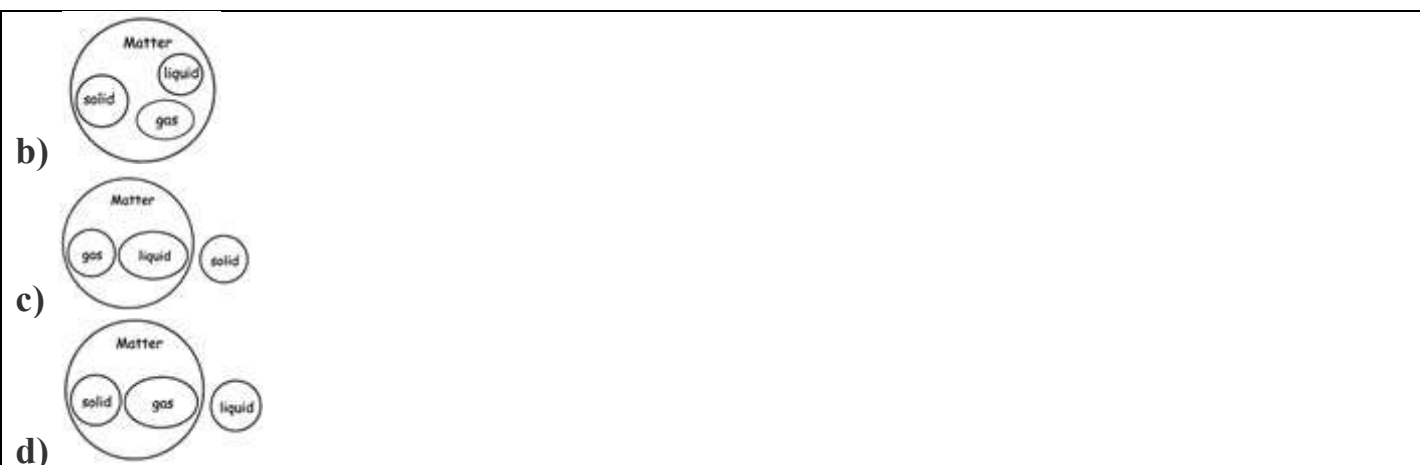
Statement B: In gases the molecules are spread out the most.

- A) Statement A is correct B is wrong,
- B) Statement B is correct A is wrong.
- C) Both the statements are correct
- D) Both the statements are wrong.

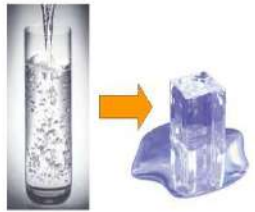
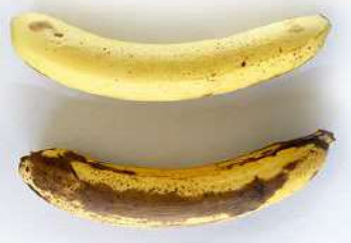
3. Study the diagram and choose the correct option-



a)


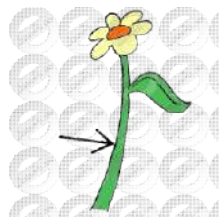



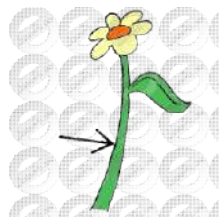



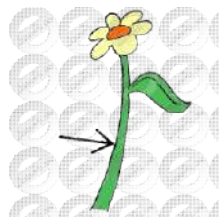




Q.4- Identify the change and write their type(chemical/physical)


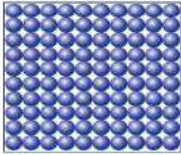
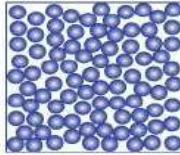
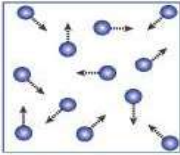
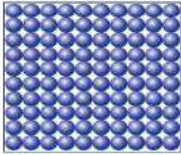
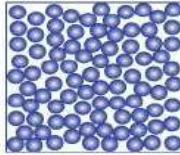
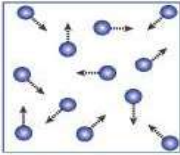
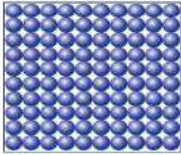
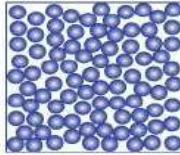
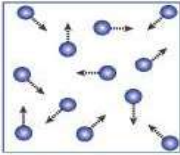
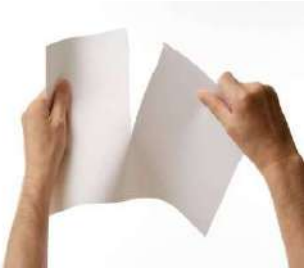
 <p>_____</p>	 <p>_____</p>
---	--





## MOCK PAPER

### PERIODIC TEST-2

Q.I	Choose the correct option.	8×1=8				
1.	Which part of plant speeds up weathering of rocks?					
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">           a)  </td> <td style="width: 25%; text-align: center;">           b)  </td> <td style="width: 25%; text-align: center;">           c)  </td> <td style="width: 25%; text-align: center;">           d)  </td> </tr> </table>	a) 	b) 	c) 	d) 	
a) 	b) 	c) 	d) 			
2.	Which of the following does not cause soil erosion?					
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">a) overgrazing</td> <td style="width: 25%; text-align: center;">b) water</td> <td style="width: 25%; text-align: center;">c) wind</td> <td style="width: 25%; text-align: center;">d) terrace farming</td> </tr> </table>	a) overgrazing	b) water	c) wind	d) terrace farming	
a) overgrazing	b) water	c) wind	d) terrace farming			



3.	Which soil has almost no plant or animal life?								
	a) Top soil            b) Subsoil            Parent material            c) Humus								
4.	Identify the structure grown in fields to conserve soil-								
									
	a) Terrace            b) dams            c) embankments            d) windbreaks								
5.	Word ATOM means- <table border="1" data-bbox="272 793 1369 907"> <tr> <td data-bbox="272 793 548 907">a) indivisible</td> <td data-bbox="548 793 820 907">b) divisible</td> <td data-bbox="820 793 1096 907">c) smallest particle of a substance</td> <td data-bbox="1096 793 1369 907">d) both band c</td> </tr> </table>	a) indivisible	b) divisible	c) smallest particle of a substance	d) both band c				
a) indivisible	b) divisible	c) smallest particle of a substance	d) both band c						
6.	Which of the following state of matter can be compressed-								
	<table border="1" data-bbox="272 1022 1369 1266"> <tr> <td data-bbox="272 1022 548 1266">             Solid         </td> <td data-bbox="548 1022 820 1266">             Liquid         </td> <td data-bbox="820 1022 1096 1266">             Gas         </td> <td data-bbox="1096 1022 1369 1266" rowspan="2">d) liquid and gas both</td> </tr> <tr> <td data-bbox="272 1266 548 1320">a)</td> <td data-bbox="548 1266 820 1320">b)</td> <td data-bbox="820 1266 1096 1320">c)</td> </tr> </table>	 Solid	 Liquid	 Gas	d) liquid and gas both	a)	b)	c)	
 Solid	 Liquid	 Gas	d) liquid and gas both						
a)	b)	c)							
7.	Following is which type of change?  <table border="1" data-bbox="297 1661 1369 1717"> <tr> <td data-bbox="297 1661 524 1717">a) chemical</td> <td data-bbox="524 1661 727 1717">b) physical</td> <td data-bbox="727 1661 1003 1717">c) Both a and b</td> <td data-bbox="1003 1661 1369 1717">d) none of the above</td> </tr> </table>	a) chemical	b) physical	c) Both a and b	d) none of the above				
a) chemical	b) physical	c) Both a and b	d) none of the above						
8.	Which of these is a good conductor of heat-								

						
<b>QII</b>		<b>Do as directed.</b>				
<b>A</b>		Fill in the blanks.				<b>2×1=2</b>
	1	When an object is heated, it _____ ( expands/contracts)				
	2	Earth Day is celebrated on _____. ( 20 <sup>th</sup> April/22 <sup>nd</sup> April				
<b>B</b>		Give one word for the following.				<b>2×1=2</b>
	1	A hard outer covering of the body of an insect.				
	2	Loosening of the soil before sowing the seed.				
<b>QIII</b>		<b>Answer the following as per instructions given below.</b>				
<b>A</b>		<b>Answer the following in short.</b>				<b>1x2</b>
	1	Write any two importance of Top soil .				
<b>B</b>		<b>Answer the following in detail.</b>				<b>2×3=6</b>
	1	Write one difference between solid and liquid, with one example of each.				
	2	Write one difference reversible and irreversible changes, with one example of each.				

### L-10 MORE ABOUT FORCE, ENERGY AND SIMPLE MCHINE

➤SDG: GOAL-7- AFFORDABLE AND CLEAN ENERGY

Poster making and presentation on renewable and non-renewable energy.

Q.1 Choose the correct option-

1.Gravity:Downword force:: \_\_\_\_\_:Upward force

- a) Magnetic force
- b) Frictional force
- c) Buoyant force
- d) Elastic force

2. Choose the incorrect option-

- a) Car tire - Road - Friction force
- b) Iron - Magnet - Magnetic force
- c) Floating boats - Buoyant force
- d) Ships - spring force

Q.3 Identify the type of force in the following-



### Forms of Energy (Worksheet)

Q.1 Label forms of energy illustrated in each of the pictures below.

- |                     |                  |                     |
|---------------------|------------------|---------------------|
| • Sound Energy      | • Light Energy   | • Electrical Energy |
| • Mechanical Energy | • Thermal Energy |                     |





## Worksheet

**Q1. Identify the different levers (Simple Machines) demonstrated in the class. Write their names and classify them into three classes of lever.**

S.No.	Name	Type of Lever
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

**Q2. Draw the diagrams of all the three types of lever and give two examples for each**

First Class Lever-	Examples

**Second Class Lever-**

**Examples**

**Third Class Lever-**

**Examples**

# L-11 AIR AND WATER

## LAYERS OF ATMOSPHERE

1. Match



**NO ATMOSPHERE- NO LIFE ON EARTH**


Q.2 support your answer with 5 reasons-


Q.3 Here are some properties of air, write their uses in your daily life-

**Properties of air**

- Air takes up space. \_\_\_\_\_
- Air supports burning. \_\_\_\_\_
- Air is affected by heat. \_\_\_\_\_

- Air exerts pressure. \_\_\_\_\_
- Hot air expands - \_\_\_\_\_

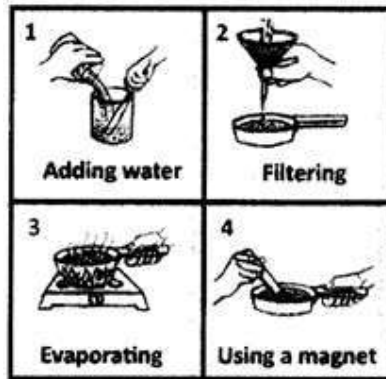
Q.4 a) Which gas in the air is represented by Part A? 

- A) Nitrogen
- B) Oxygen
- C) Carbon-dioxide
- D) Water vapour

b) Which gas in the air is represented by Part C?

- A) Nitrogen
- B) Oxygen
- C) Carbon-dioxide
- D) Water vapour

Q. 5 Shyam is trying to separate a mixture of iron filings, sand and sugar. In which order must he




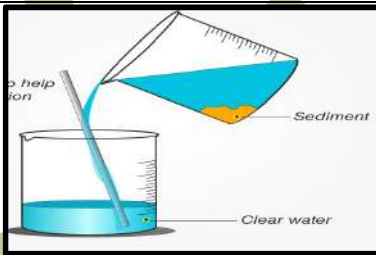

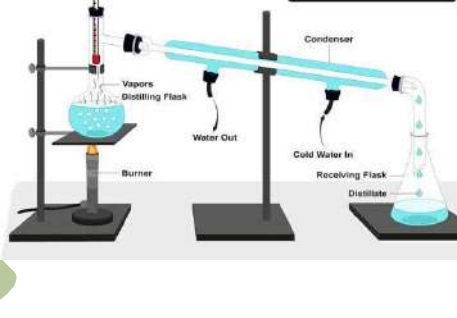
perform the following steps?

- A) 4, 1, 2, 3
- B) 1, 2, 4, 3
- C) 1, 3, 4, 2
- D) 4, 2, 3, 1

**Q.6** When a mixture of Salt + Sugar + Vinegar + Lemon juice + Soda was added into water, it resulted in the formation of a:

- A) Soluble mixture
- B) Layers of different mixtures
- C) Mixture in which all ingredients are mixed except soda that forms a separate layer
- D) None of these

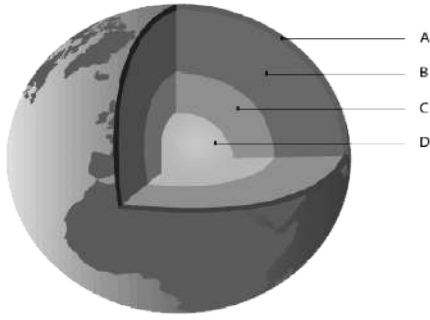
**Q.7** Identify the process of purification of water, also write the type of impurities removed by that method.

 <p>_____</p>	 <p>_____</p>
 <p>_____</p>	 <p>_____</p>

**L-12 EARTH, SUN and MOON**

**SEA: DATA COLLECTION-The most ambitious launches of ISRO scheduled in 2022.1. MOM 2 2. CHANDRAYAAN**

Q.1 Which option shows each of the following layers in order from the outermost layer?



- a. mantle, outer core, crust, and inner core
- b. inner core, outer core, crust, and mantle
- c. crust, mantle, outer core, inner core
- d. mantle, crust, outer core, inner core

Q.2 \_\_\_\_\_ and pressure both increase with depth in the Earth's interior.

- a. Temperature
- b. Weight
- c. Composition
- d. Pressure

Q.3 ANSWER THE FOLLOWING-

1. I undergo periodic changes. I am the one who is responsible for tides. I am the king of nights but I beg light from sun. Who am I

\_\_\_\_\_

2. The moon has no light of its own, yet it shines at night because-

3. Large round holes found on the moon's surface are called-

\_\_\_\_\_

4. Match the following events in column I with the persons they relate to in column ? II correctly

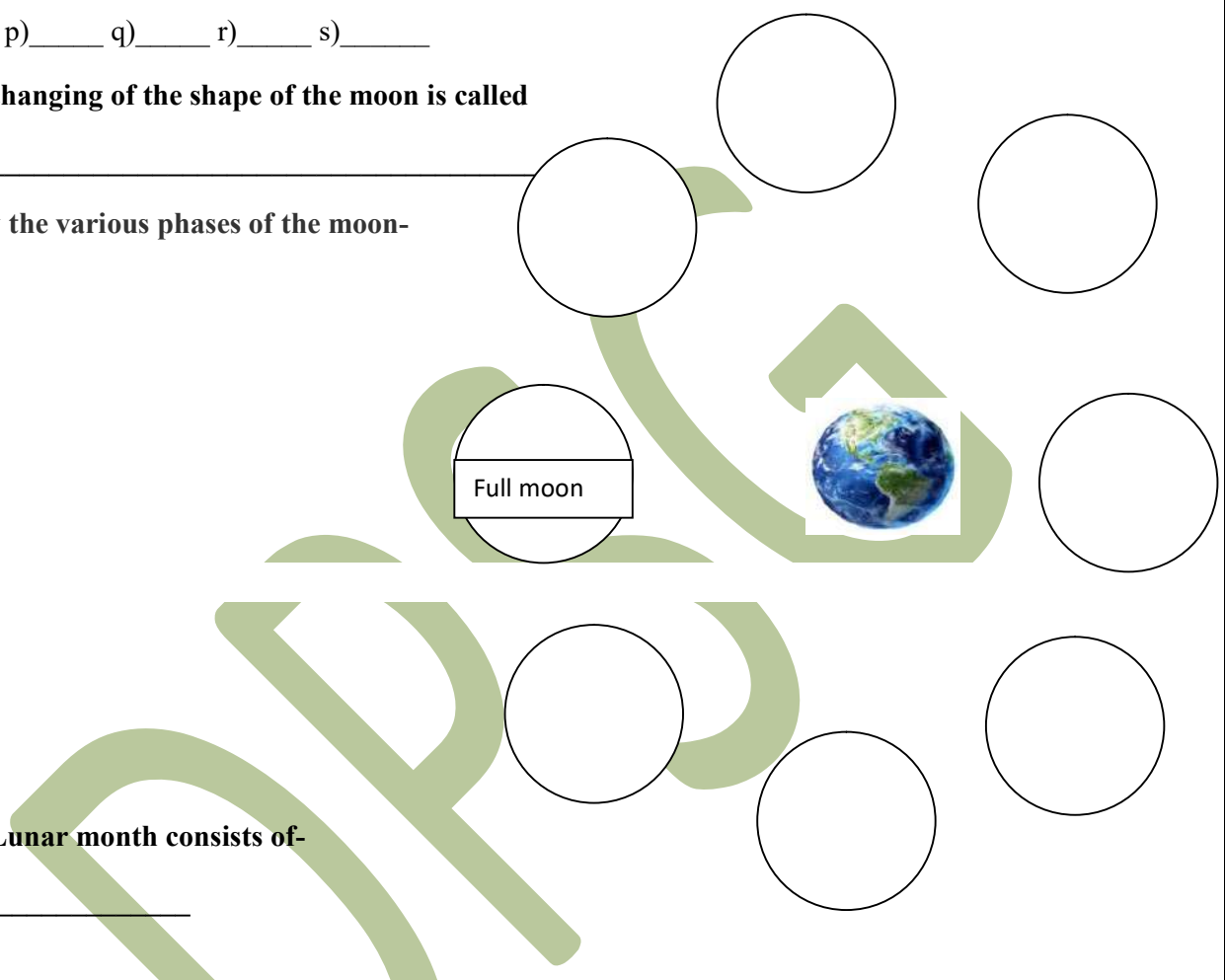
	Column I		Column II
(p)	The first man to into space.	(i)	Neil Armstrong
(q)	The first Indian woman to go into space.	(ii)	Rakesh sharma

(r)	The first man to set foot on moon	(iii)	Kalpana Chawla
(s)	The first Indian to go into space.	(iv)	Yuri Gagarin

p) \_\_\_\_\_ q) \_\_\_\_\_ r) \_\_\_\_\_ s) \_\_\_\_\_

5. The changing of the shape of the moon is called

6. Draw the various phases of the moon-



6. The Lunar month consists of-

\_\_\_\_\_

7. Choose the correct option-

i) Tides can be defined as the

- a) alternate rise and fall of the ocean water
- b) alternate rise of the ocean water
- c) alternate fall of the ocean water
- d) none of the above

ii) Tides are caused by the-

- a) The gravitational force exerted on Earth by the Sun
- b) The gravitational force exerted on Earth by the Moon

c) Rotation of the Earth

d) all of the above

iii) The time required for a tide to reach its maximum level-

a) 5 hours

b) 6 hours

c) 7 hours

d) 8 hours

8. Write the names of all 6 types of artificial satellite with one use of each.

Types of artificial satellite	use

9. Choose the correct option-

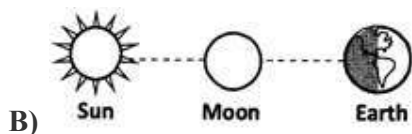
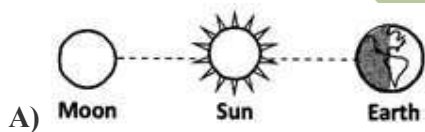
a) Hydrogen  $\longrightarrow$  Helium+ light+ heat

b) Hydrogen  $\longrightarrow$  Oxygen +light +heat

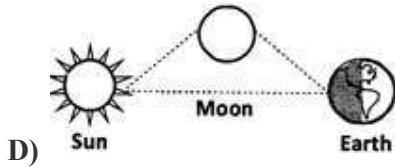
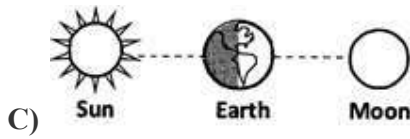
c) Helium  $\longrightarrow$  Hydrogen +light+ heat

d) Helium+ light+ heat  $\longrightarrow$  Hydrogen

**Q.10 Which of the following positions of the sun, the earth and the moon represents a solar eclipse?**







### L-13 NATURAL DISASTERS

Q.1 Identify the natural disaster and name them

 <p>_____</p>	 <p>_____</p>	 <p>_____</p>
 <p>_____</p>	 <p>_____</p>	 <p>_____</p>

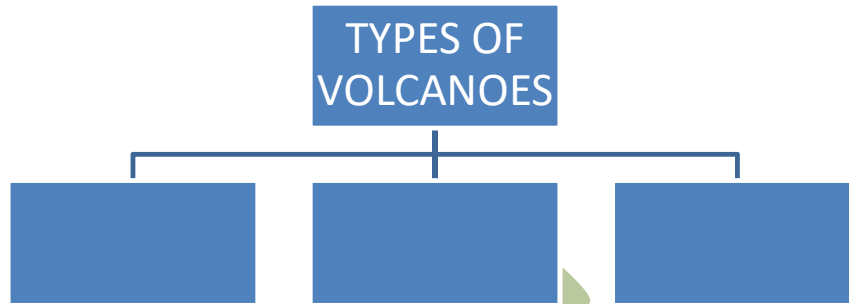
Q.2 Give one word -

- i) Earthquakes are measured on-\_\_\_\_\_
- ii) The instrument used for detecting earthquake waves is called-\_\_\_\_\_
- iii) The reading above \_\_\_ on Richter scale can cause severe damage.
- iv) The point of origin of an earthquake under the earth's surface is called the  
\_\_\_\_\_

v) Write any two effects of earthquake-

1 \_\_\_\_\_ 2 \_\_\_\_\_

Q.3 Complete the concept map,with one example of each---



Q. 4 Give three reasons for TSUNAMI-

i) \_\_\_\_\_

ii) \_\_\_\_\_



iii) \_\_\_\_\_

Q.5 Match the column

COLUMN-1	COLUMN-2
a) Japan	i) The Bay of Bengal
b) Hurricane	ii) The northern Indian Ocean
c) Cyclone	iii) The southern USA

Ans. a) \_\_\_\_\_ b) \_\_\_\_\_ c) \_\_\_\_\_

Q.6 The following natural disasters lead to what?( hint- earthquake, flood, pandemic, famine)

	→
	→

## L-14 CHANGES IN OUR ENVIRONMENT



THESE ALL ARE OUR-

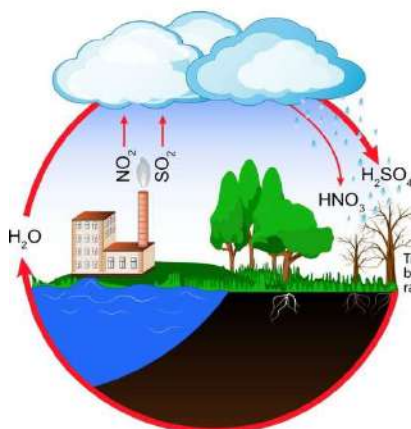
N \_\_\_\_\_ R \_\_\_\_\_



**Q.1** How many types of pollution can you identify in the given picture-

1. \_\_\_\_\_ 2. \_\_\_\_\_  
 3. \_\_\_\_\_ 4. \_\_\_\_\_

**Q.2** Observe and answer-



i) Which phenomenon are you observing in this picture? \_\_\_\_\_

ii) Which gases are responsible for this?  
 \_\_\_\_\_

iii) Is it good or bad for environment? \_\_\_\_\_

iv) Write it's any two effects-  
 \_\_\_\_\_  
 \_\_\_\_\_

**Q.3 Observe and answer-**



- i) Type of pollution \_\_\_\_\_
- ii) \_\_\_\_\_
- 2 causes \_\_\_\_\_
- iii) Example of solid wastes \_\_\_\_\_
- iv) 2 effects \_\_\_\_\_

**Q.4 Arrange the steps of EUTROPHICATION in correct order-**

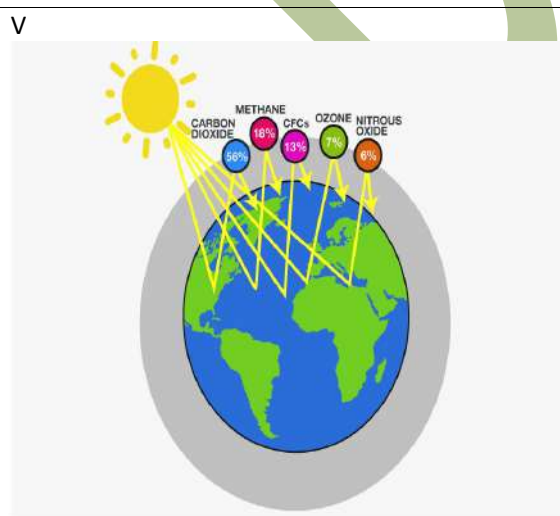
- a) Growth of plants in a water body.
- b) Excessive nutrients in a water body, caused by runoff of nutrients from land.
- c) Death of aquatic animals.
- d) Growth of green plants leads to oxygen shortage in water.

Ans i) \_\_\_\_\_ ii) \_\_\_\_\_ iii) \_\_\_\_\_ iv) \_\_\_\_\_

**Q.5 The locomotive pilot (Driver) of Indian Railways usually suffers with mental imbalance and nervous disability later in their life. What may be the cause of this-?**

- a) Prolonged standing
- b) Lack of rest
- c) Continuous exposure to loud noise
- d) None of this

**Q.6 Study the following image and answer the questions-**



1. The slow increase in the average temperature of the earth's atmosphere because an increased amount of the energy (heat) striking the earth from the sun is being trapped in the atmosphere and not radiated out into space.

This is called \_\_\_\_\_, which is caused due to \_\_\_\_\_ effect.

2. The gases responsible for this

3. The harmful effects on Earth-

---

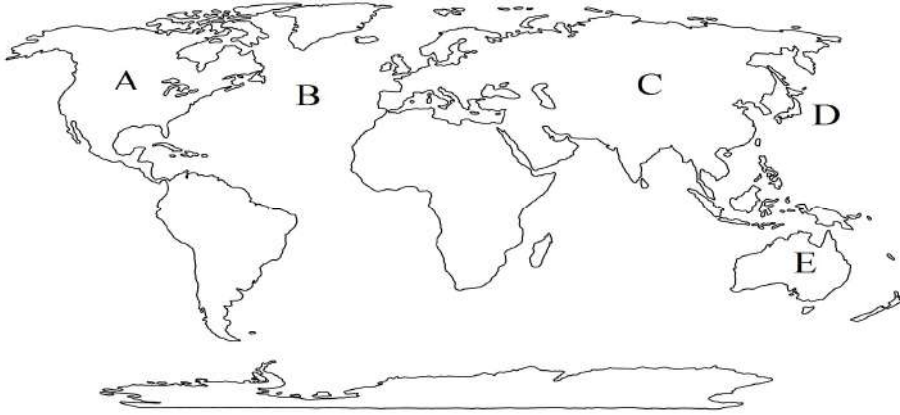
---

---



**MAP-WORK**

Look at the map and name the continent and oceans marked here. (A to E)



**QUESTION BANK**

**L-8 SOIL**

Q.I Answer in one word-

1. Which type of soil has the smallest soil particles?
2. How many layers of soil can be seen in soil profile?
- 3 Give two examples of cover crop.

Q.II Answer in short-

1. Name the layers of soil.
2. Define soil erosion and soil conservation.
3. What is terrace farming?

Q.III Answer in detail-

1. Explain different layers of soil.
2. Write any 4 causes of soil erosion.
3. Write any 4 ways of soil conservation.

**L-9 STATES OF MATTER**

Q.I Answer in one word-

1. Name the smallest particle of matter.

2. Name a substance that sublimates.
3. Rusting of iron is called \_\_\_\_\_.
4. Name one magnetic substance.

Q.II Answer in short-

1. What is matter? 2. In how many states matter exists?
2. Write differences between –
  - i) Atom and molecule
  - ii) liquid and gases
  - iii) Reversible and irreversible changes
  - iv) expansion and contraction

Q.III Answer in detail-

1. Explain thermal conductivity and electrical conductivity in detail.
2. Explain physical and chemical changes in detail.

### L-10 MORE ABOUT FORCE, ENERGY AND SIMPLE MACHINE

Q.I Answer in one word-

1. Which force works in the direction opposite to the motion of the body?
2. Which energy is obtained from moving air?
3. The weight of the body on which work is to be done is called \_\_\_\_\_.
4. Which force pushes object upwards?

Q.II Answer in short-

1. Write any two disadvantages of friction.
2. Identify the force-



3. Give example of the following simple machine
  - a) Lever
  - b) Wedge
  - c) Inclined plane

Q.III Answer in detail-

1. Explain any four types of energy with examples.
2. Differentiate between renewable and non renewable energy with example.

### L-11 AIR AND WATER

Q.I Answer in one word-

1. What is the percentage of oxygen in air?
2. Water is known as \_\_\_\_\_ as it can dissolve many substances.
3. What is added in water for loading?
4. Which gas is used to kill the germs found in drinking water?

Q.II Answer in short-

1. Match the columns-

Column I	Column II
<b>Layers of atmosphere</b>	<b>Events take place</b>
a) stratosphere	i) the lowest part of the atmosphere - the part we live in.
b) mesosphere	ii) Outermost layer of earth's atmosphere
c) troposphere	iii) Meteorites burn in this layer
d) exosphere	iv) The ionosphere lies within
e) thermosphere	v) houses the <u>ozone layer</u> that protects us from the harmful effect of the sun's rays.

Ans. a) \_\_\_\_\_ b) \_\_\_\_\_ c) \_\_\_\_\_ d) \_\_\_\_\_ e) \_\_\_\_\_

2. Name the different steps involved in water treatment.
3. Give any two use of air pressure in day to day life.

Q.III Answer in detail-

1. List the properties of air.
2. How various gases of atmosphere are useful to us?
3. Write a short note on distillation. Draw a suitable diagram.
4. Make a concept map on impurities of water and how to remove them.

### L-12 EARTH, SUN AND MOON

Q.I Answer in one word-

1. What is the distance between Earth and Sun in kilometers?
2. The first artificial satellite launched into orbit was \_\_\_\_\_.

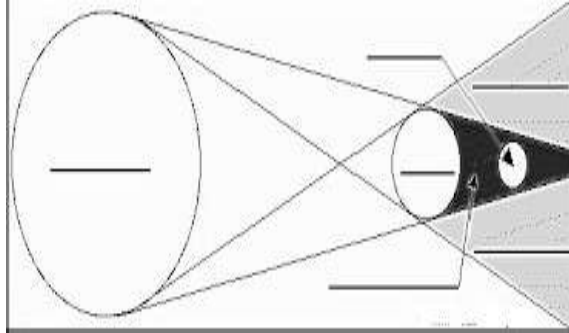
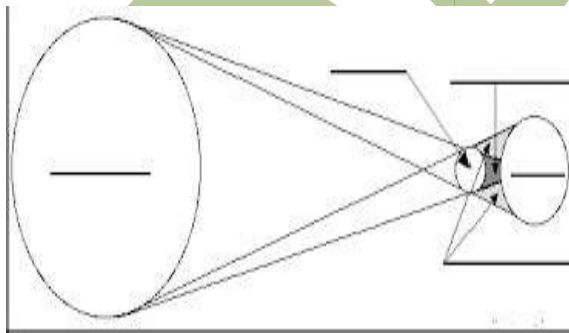
3. Name the first manned spacecraft to reach the Moon.
4. Huge round pits and mountains on moon's surface.

Q.II Answer in short-

1. Why is life not possible on the Moon?
2. Different between high tide and low tide. Also write their causes.
3. Define i) Eclipse ii) Phases of Moon

Q.III Answer in detail-

1. Differentiate between Solar Eclipse and Lunar Eclipse.
2. Observe and answer-

	Q1.Label the diagram.
	Q.2 Name the Eclipse given?
	Ans.
	Q3. On which day this Eclipse occur?
	Q1.Label the diagram.
	Q.2 Name the Eclipse given?
	Ans.
	Q3. On which day this Eclipse occur?
	Ans.
	Q4. Explain how this Eclipse occurs?
	Ans.

3. Write names of any four types of artificial satellite and also describe their uses.

### L-13 NATURAL DISASTERS

Q.I Answer in one word-

1. Which instrument is used to measure an Earthquake?
- 2 Name the plates found in Earth's crust.



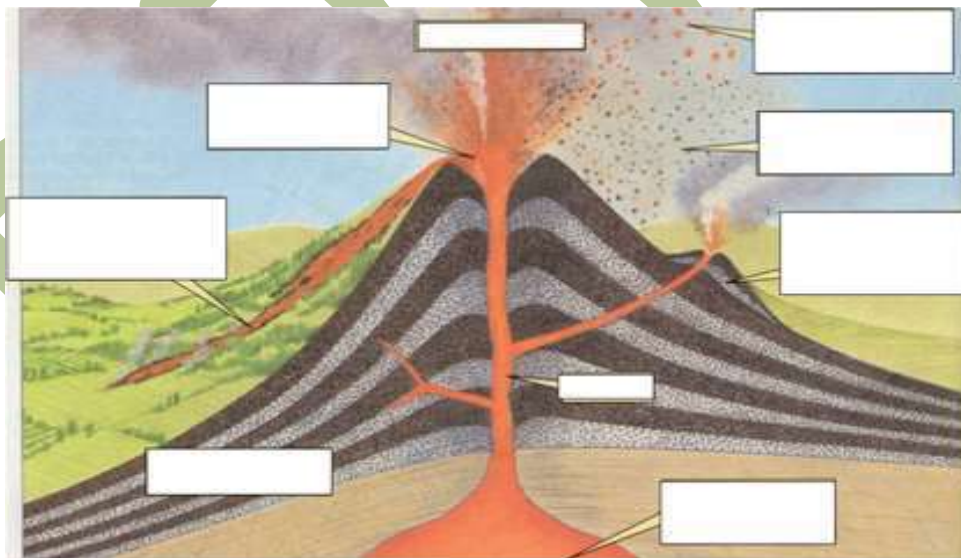
3. What is another name of tidal waves?
4. Drought can often lead to \_\_\_\_\_.

Q.II Answer in short-

1. **What is a natural disaster?**
2. **Why do earthquakes occur?**
3. **Make a concept map on types of volcano with one example of each.**
4. **Write two effects of cyclone.**
5. **Give two reasons why floods occur?**

Q.III Answer in detail-

1. Explain the following-
  - i) Aftershock of an earthquake
  - ii) Harmful effects of an earthquake
  - iii) Precautions during Earthquak.
2. Label all the parts of a volcano- (hint: magma chamber, magma, lava, vent, vent, ash, bits of rocks, lava flow)



### **L-14 CHANGES IN OUR ENVIRONMENT**

Q.I Answer in one word-

1. The substances which cause pollution are called \_\_\_\_\_.
2. When smoke gets mixed with fog, it produces \_\_\_\_\_.
3. Which greenhouse gas is produced most by humans?

4. When do we celebrate Van Mahotsava Day?

Q.II Answer in short-

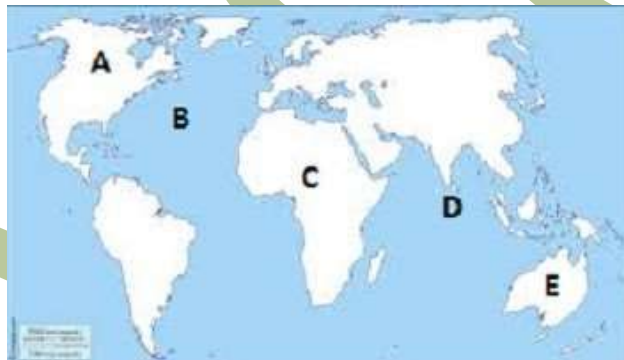
1. Name greenhouse gases.
2. Define global warming.
3. Write two causes and two effects of –
  - i) Air pollution
  - ii) Water pollution
  - iii) Noise pollution
  - iv) Soil pollution

Q.III Answer in detail-

1. What is acid rain? What are its effects?
2. Explain greenhouse effect with suitable diagram.

### MAP WORK

Identify and write the names of continents and oceans marked as A to E on the map of world



### **CBE BASED -WORKSHEET**

Q.1 I am thin and dark in colour, I have decomposed leaves and organic matter, without me the soil becomes infertile. Who am I –

- a) parent material
- b) bed rock
- c) organic layer/humus
- d) subsoil

Q.2 Why do ice creams occupy more space than water?

- a) because when it is forming it traps some air.
- b) because it melts quickly
- c) because it has sugar and milk
- d) none of these

Q.3 Which force enables them **to do or not to do** it easily-



- a) Frictional
- b) elastic
- c) muscular
- d) electrostatic

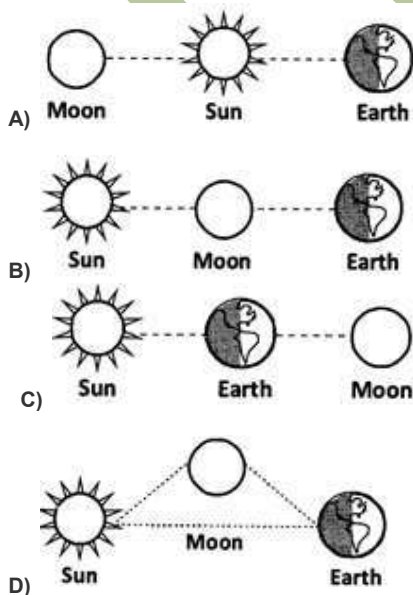
Q.4 Name at least 4 renewable sources of energy in given picture-



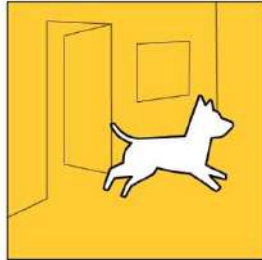
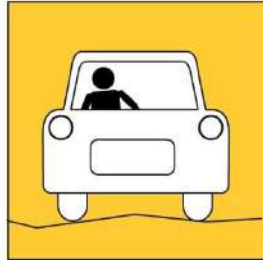
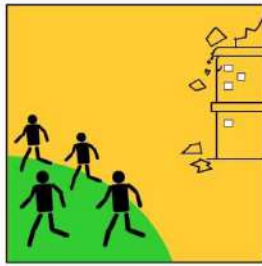
- i) \_\_\_\_\_ ii) \_\_\_\_\_ iii) \_\_\_\_\_ iv) \_\_\_\_\_

Q.5 When we talk on moon, we cannot hear each other. Give reason-  
 Ans. \_\_\_\_\_

Q.6 Which of the following positions of the sun, the earth and the moon represents a lunar eclipse?



Q.7 Study the following picture and write any 4 observations

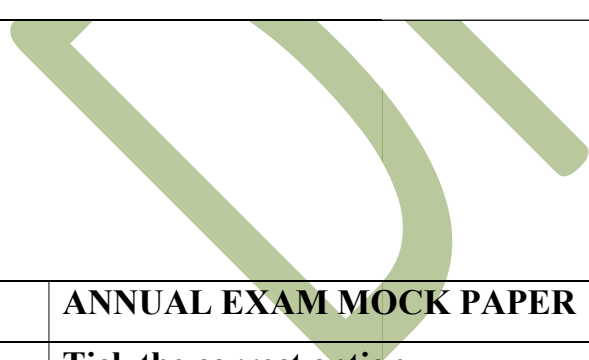



i) \_\_\_\_\_


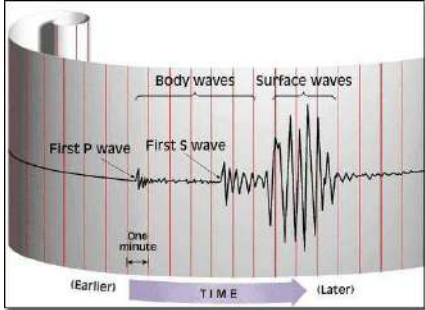

ii) \_\_\_\_\_

iii) \_\_\_\_\_

iv) \_\_\_\_\_



		<b>ANNUAL EXAM MOCK PAPER</b>					
<b>Q.I</b>		<b>Tick the correct option.</b>	<b>20×1=20</b>				
	1.	 <p>This sign says-</p>					
		<table border="1"> <tr> <td>a) Reduce your needs</td> <td>b) Avoid disposable things</td> </tr> <tr> <td>c) Convert waste into reusable things</td> <td>d) All of the above</td> </tr> </table>	a) Reduce your needs	b) Avoid disposable things	c) Convert waste into reusable things	d) All of the above	
a) Reduce your needs	b) Avoid disposable things						
c) Convert waste into reusable things	d) All of the above						

2.	Which greenhouse is produced most by humans	
	a) carbon dioxide b) methane c) ozone d) water vapour	
3.	 <p>This causes-</p>	
	a) water pollution b) suffocation to aquatic life c) both a and b d) none of the above	
4.	<p>Study the following picture and answer what is the cause of these continuous lines-</p> 	
	a) aftershocks b) rain c) cyclone d) volcanic eruption	
5.	The thing which your emergency kit should not have-	
	a) dust mask b) first aid kit c) flashlight d) laptop	
6.	Houses of earthquake prone zone should be made up of-	
	a) strong heavy building material b) light weight building material c) steel and iron d) none of the above	
7.	<p>These footprints on moon do not vanish with time because of-</p> 	
	a) absence of light b) absence of air c) absence of water d) none of these	
8.	Which of the cause of this-	



- a) meteorites crash on moon      b) volcanic eruption  
 c) low and high tides              d) none of the above

9

Which phase of moon is shown here-



- a) crescent    b) half moon    c) gibbous    d) full moon

10



Which property of air is shown in this picture-

- a) air exerts pressure              b) air is a matter  
 c) air is needed for burning      d) air has weight

11

Neon, Argon, Krypton and xenon gases are used to make fluorescent tubes and bulbs, as-

- a) they emit light when charged              b) they are easily available  
 c) they are of low cost                              d) none of the above

12







If you are getting water from water table through bore at your home, which type of water purifier you should have?

- e) R O purifier                                      b) Simple purifier without R O  
 c) Boil and use                                      d) Drink directly from tap

13

Sun is a renewable source of energy. How can we use this energy?



	<p>a) by converting it into electrical energy</p> <p>b) the heat can be used in cooking</p> <p>c) plants use the energy to make food</p> <p>d) all of the above</p>	
14	Identify the movable pulley in the following pictures-	
	<p>a) </p> <p>b) </p> <p>c) </p> <p>d) </p>	
15	Which force is working in the following picture?-(red arrow)	
		
	a) elastic b) magnetic c) gravitational d) friction	
16	Which gas is coming out in the following picture?	
		
	a) carbon dioxide b) oxygen c) hydrogen d) air	
17	During summer it is advisable to fill less air in cycle tubes, because-	
	<p>a) due to heat the air will expand and tube may burst</p> <p>b) it makes difficult to ride</p> <p>c) we can fill</p> <p>d) none of the above</p>	
18	Turning milk into curd is a-	
	<p>a) physical change                      b) chemical change</p> <p>c) fast change                              d) none of the above</p>	

19	'When forest wealth is endangered, the balance in nature is disturbed.' Why?	
	a) green cover will reduce b) animal habitat will get disturbed c) natural resources will be destroyed d) all of the above	

20	The following picture shows- 	
----	---	--

	a) terrace farming b) crop rotation c) wind breaks d) cover crops	
--	--	--

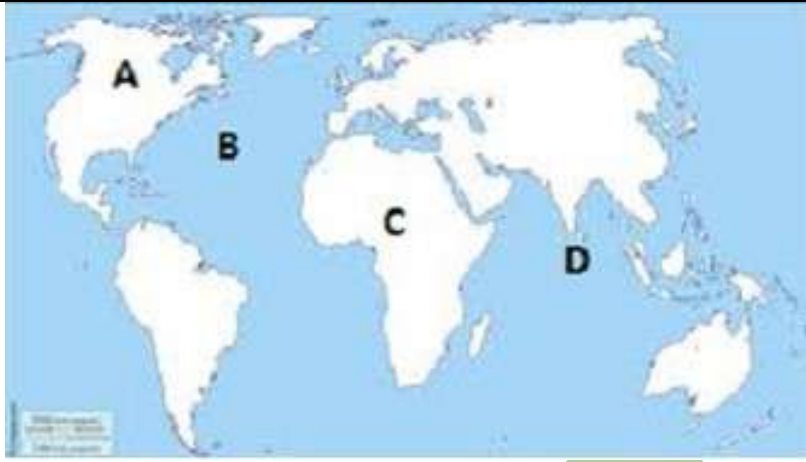
**Q.II Do as directed**

1.	<b>Fill in the blanks.</b> v) The wearing away of the soil by water or wind is called _____ vi) Corrosion is _____. vii) _____ attracts iron objects. viii) _____ is the layer of the soil with humus.	<b>4x1=4</b>
----	--	--------------

2.	<b>Match the following.</b> <table border="1" data-bbox="321 1608 1279 1913"> <thead> <tr> <th data-bbox="321 1608 685 1671">Column A</th> <th data-bbox="685 1608 1279 1671">Column B</th> </tr> </thead> <tbody> <tr> <td data-bbox="321 1671 685 1734">v) Coagulation</td> <td data-bbox="685 1671 1279 1734">a) Heavy impurities settle down</td> </tr> <tr> <td data-bbox="321 1734 685 1797">vi) Sedimentation</td> <td data-bbox="685 1734 1279 1797">a) Killing of germs</td> </tr> <tr> <td data-bbox="321 1797 685 1860">vii) Filtration</td> <td data-bbox="685 1797 1279 1860">b) Loading by alum</td> </tr> <tr> <td data-bbox="321 1860 685 1913">viii) Chlorination</td> <td data-bbox="685 1860 1279 1913">c) sand, charcoal, gravels used to</td> </tr> </tbody> </table>	Column A	Column B	v) Coagulation	a) Heavy impurities settle down	vi) Sedimentation	a) Killing of germs	vii) Filtration	b) Loading by alum	viii) Chlorination	c) sand, charcoal, gravels used to	<b>4x1/2=2</b>
Column A	Column B											
v) Coagulation	a) Heavy impurities settle down											
vi) Sedimentation	a) Killing of germs											
vii) Filtration	b) Loading by alum											
viii) Chlorination	c) sand, charcoal, gravels used to											



		remove impurities	
	3.	<p><b>Write true or false.</b></p> <p>v) Ionosphere is a part of thermosphere  vi) Troposphere contains ozone layer  vii) Meteorites burn in exosphere  viii) Jet planes fly in stratosphere.</p>	4x1/2=2
	4.	<p><b>Complete the concept map.</b></p> <pre> graph TD     A[Types of lever] --- B[a) _____]     A --- C[b) _____]     A --- D[c) _____] </pre>	2x1=2
<b>Q.II</b>		<b>Answer the following.</b>	
<b>I</b>	1.	<p><b>Answer the following in short.</b></p> <p>A) Define: a) Pollution b) Smog  B) Write the difference between hypocenter and epicenter.  C) Write two characteristics each for crust and mantle.</p>	3x2=6
	2.	<p><b>Answer the following in detail.</b></p> <p>A) Write any three differences between solar and lunar eclipse  B) i) Define global warming  ii) Give any two harmful effect of it..</p>	2x3=6
	3.	<p>A) Identify the following Simple machines with the description given below:</p> <p>a) A rod free to rotate about a fixed point.  b) Made of two inclined planes.  c) A nail with a winding edge cut into it.  d) A wheel with a rod attached to the centre.</p>	2x4=8
		<p>B) Identify and write the names of continents and oceans marked as A to D on the map of world.</p>	



DRSG