

**Medium - English
Session 2012-13
Class-VIII
Subject - Science
WORK-SHEET**

S.A. 1

Lesson - 3	Synthetic fibres and plastics
Lesson - 17	Stars and the solar system
Lesson - 5	Coal and petroleum
Lesson - 1	Crop production and management
Lesson -2	Micro-organisms Friend and Foe
Lesson - 18	Pollution of Air and water
Lesson -7	Conservation of Plants and Animals
Lesson -14	Chemical effects of electric current
Lesson -11	Force and pressure

**Under the Guidance of
Mrs. Shashi Bala Saini**

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Lesson - 3

Synthetic Fibres and Plastics.

1. Write one use of following fibres.

- a) Rayon _____
- b) Nylon _____
- c) Polyester _____
- d) Acrylic _____

2. What are 3R stands for _____

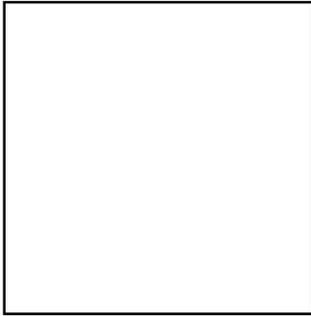
3. Complete the following table --

Item	Thermoplastic / Thermosetting
Toys	
Electrical switch	
Handles of utensils	
Comb	
Kitchen ware (crocery)	
Bucket	
Floor Tiles	
Telephone Instruments	

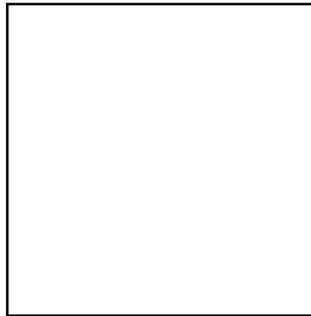
4. Categorise the following things according to the type of fibre from which they are made as natural / man made

- | | | | |
|----------------|-------|----------------|-------|
| Woolen clothes | _____ | Paper | _____ |
| Silk Saree | _____ | Nylon Socks | _____ |
| Tooth Brush | _____ | Cotton Clothes | _____ |

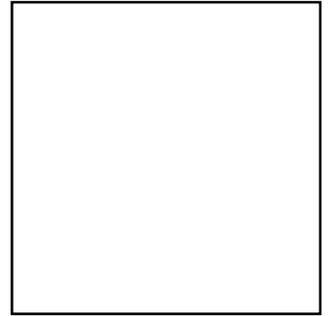
5. Paste the sample of cloth made up of type of fibre as mentioned below.



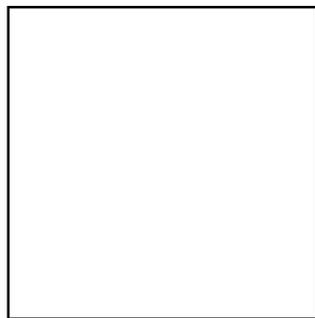
Cotton



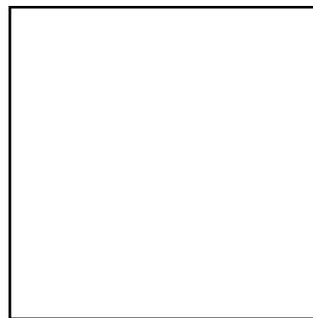
Wool



Silk



Nylon



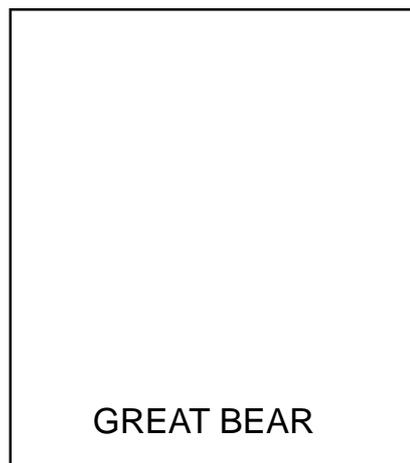
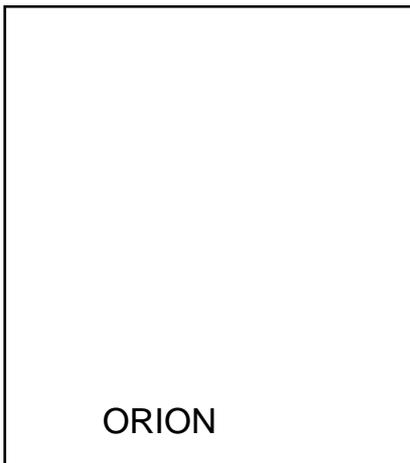
Polyester

Class-VIII
L-17
Stars and the Solar System

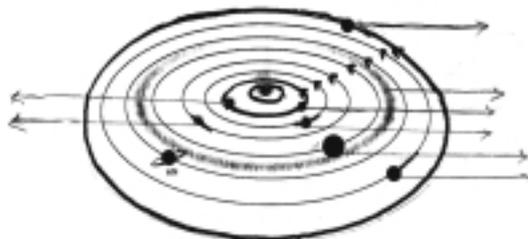
1) Fill in the blanks.

- a) The celestial objects which revolve around the planets are called _____.
- b) _____ is the biggest planet of solar system.
- c) _____ is the natural satellite of earth.
- d) _____ are used for weather forecast, transmitting television and radio signals.
- e) _____ is the first artificial satellite of India.

2. Draw following constellations.



3. Label the different members of solar - system



SOLAR SYSTEM

4. Match the columns :-

- | Column 'A' | Column 'B' |
|--|------------------|
| a) Brightest Planet | i) Constellation |
| b) Artificial Satellite | ii) Meteor |
| c) Group of stars having a
Recognisable shape | iii) INSAT |
| d) Shooting star | iv) Orion |
| e) Reddish Planet | v) Mars |
| f) Constellation appearing in summer | vi) Venus |
| g) constellation appearing in winter | vii) Ursa Major |
| h) | viii) Moon |

'A'	'B'
a)	
b)	
c)	
d)	
e)	
f)	
g)	

5. Fill the boxes with the help of clues :-

1) The distance between celestial bodies is measured in terms of

L	I							R
---	---	--	--	--	--	--	--	---

2) Reddish Planet

M			
---	--	--	--

3) Found on the planet saturn

R				
---	--	--	--	--

4) The bright planet present near the orion constellation

S		R			S
---	--	---	--	--	---

L-5 Coal and Petroleum

- 1) Which resource is inexhaustible by human activities.
 - a) Coal
 - b) Petrol
 - c) Air
 - d) Minerals

- 2) Which fuel does not leave residue.
 - a) Coal
 - b) Wood
 - c) Kerosene oil
 - d) Cow dung cakes

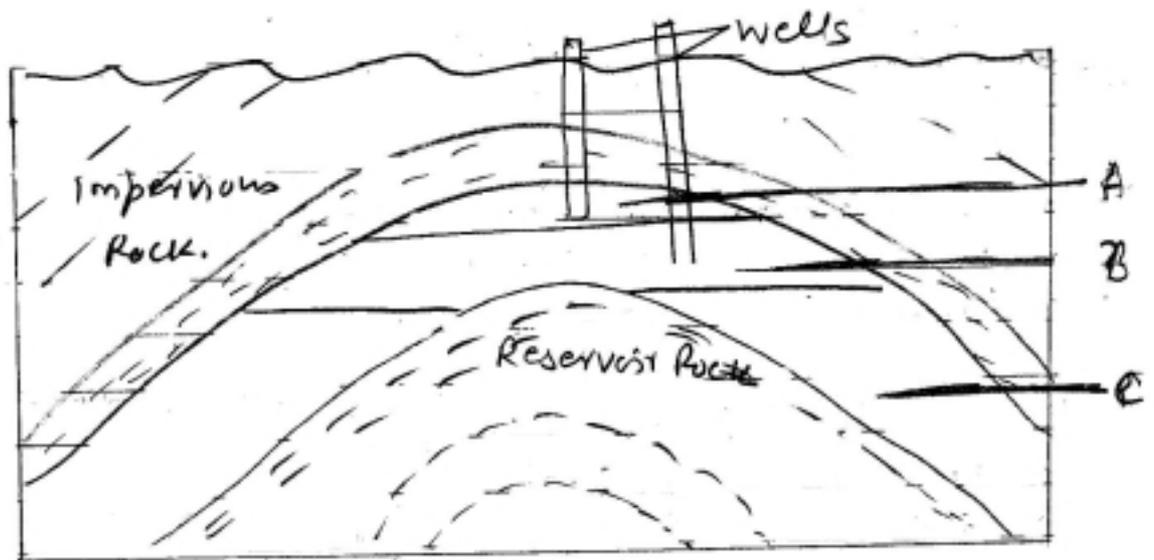
- 3) Which fuel produce less pollution.
 - a) Petrol
 - b) Coal
 - c) CNG
 - d) Wood.

- 4) When coal is burnt, which gas is produced.
 - a) Oxygen
 - b) Carbon dioxide
 - c) Nitrogen
 - d) Hydrogen

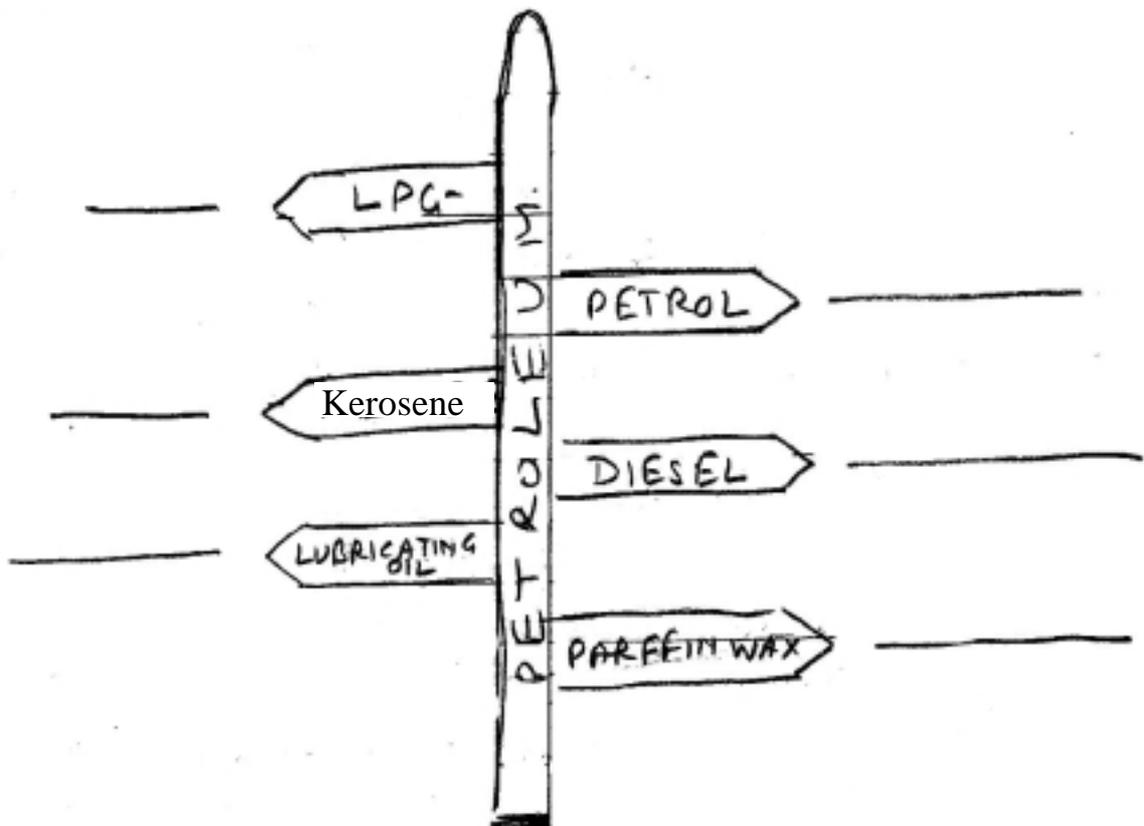
- 5) Which is pure form of carbon.
 - a) Coke
 - b) Coal
 - c) Coal Tar
 - d) Coal Gas.

- 6) Write one word for the following sentences.
 - a) Resources are present in unlimited quantity in nature _____.
 - b) Fuels which are formed from dead remains of living organismn (fossils) _____.
 - c) The process of separating various constituents of petroleum. _____
 - d) A slow process of conversion of dead vegetation into coal _____.

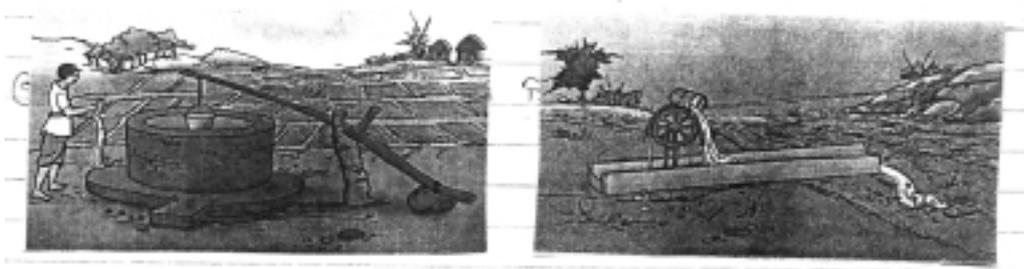
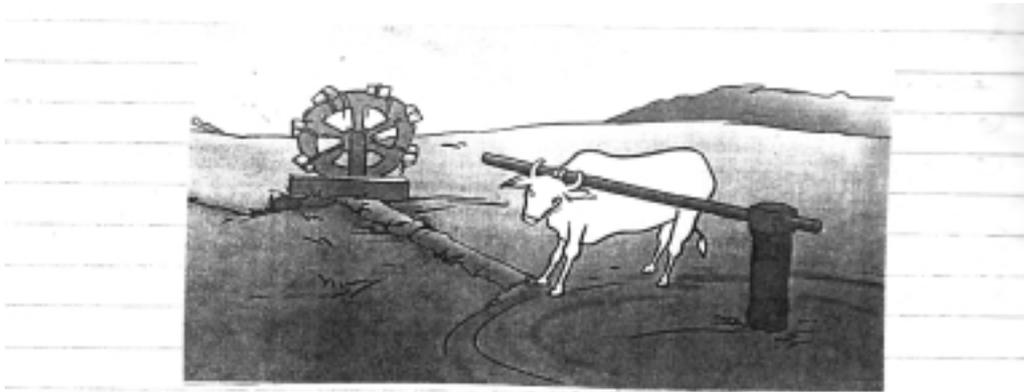
- 7) Petroleum and natural gas deposits are shown in figure. Where will be oil, gas and water present



8) Constituents of petroleum are shown in figure below. Write one use of each constituent.



8) Identify following figures (as traditional of method of irrigation)
 Rahat, Chain pump, Moat, Dhekli



9) Complete following table.

Food	Source		
Milk
Meat
Eggs

10) Match the column A to Column B.

Column A

Column B

a)



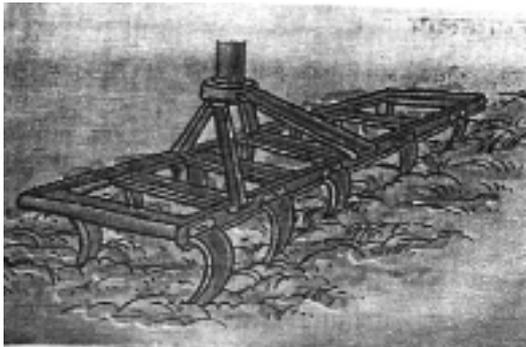
i) Hoe

b)



ii) Cultivator

c)



iii) Plough

d)



iv) Seed drill

Ans.

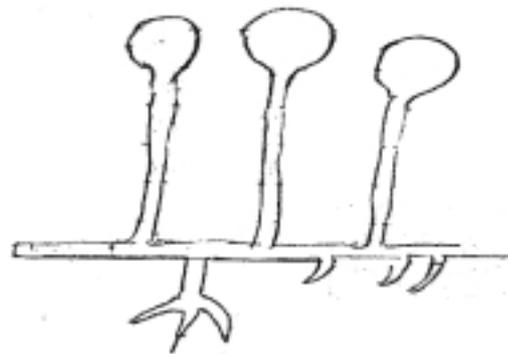
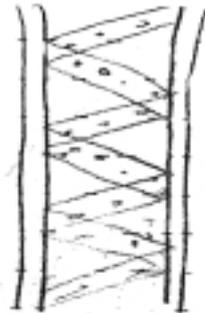
A	
B	
C	
D	

L-2

Micro-roganisms : Friend and Foe

1) Identify the class of micro organisms to which the following organisms belong.

Key -- Algae, Protozoa, Fungi, Bacteria



2) Give one word for the following statements :-

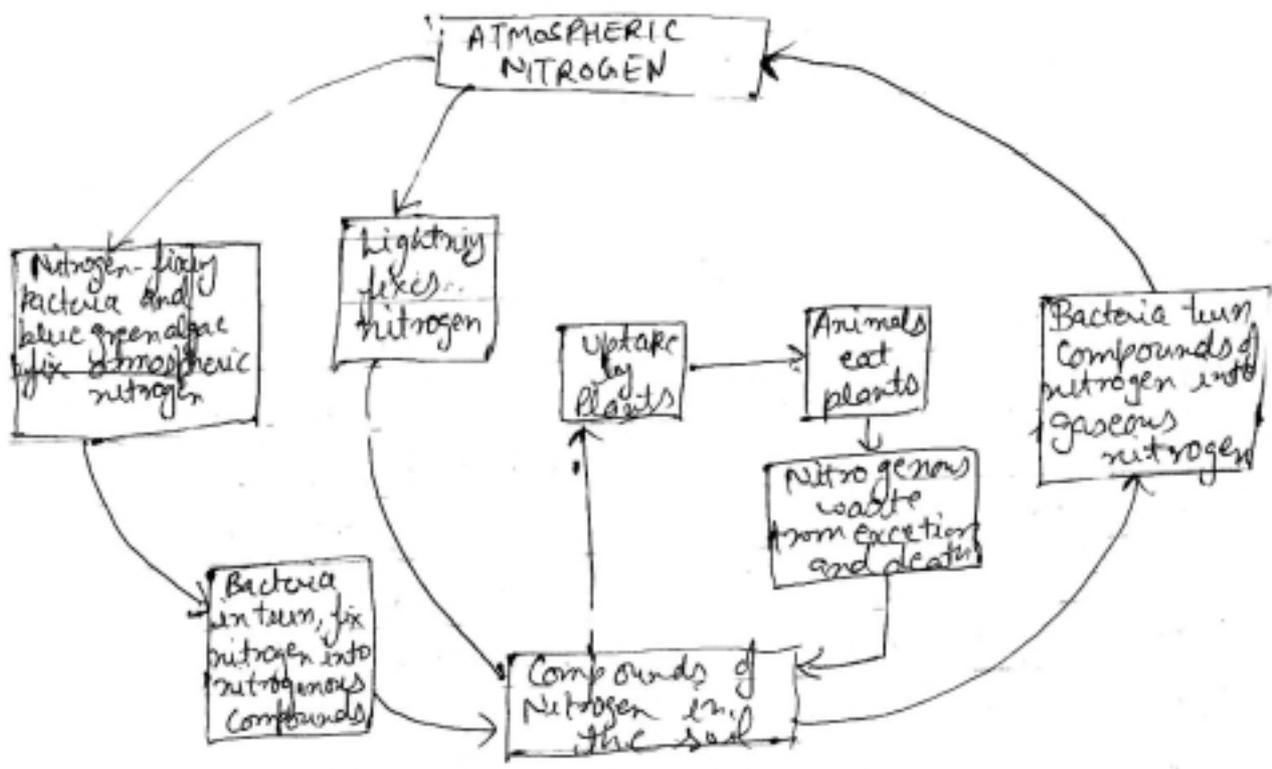
- a) The organisms which we cannot see with naked eyes.
- b) Bacteria which promotes the formation of curd.
- c) The medicines used to kill or stop the growth of micro organisms.
- d) Cholera, common cold, chicken pox and tuberwlosis is are examples of
- e) Malaria is caused by

3) Complete the following table.

Human&Disease	Casual Organism	Mode of Transmission
Measles	Air

Typhoid	Bacteria
Malaria	Mosquito
Polio	Virus
Tuberculosis	Air

4. After studying Nitrogen - Cycle, Answer following Questions



NITROGEN - CYCLE

- a) Which organism converts atmospheric nitrogen into nitrogenous compounds.
.....
 - b) Which gas is fixed by lightning.
5. Fill in the blanks :
- i) Conversion of sugar into alcohol is called _____.
 - ii) Atmosphere has _____% of nitrogen gas
 - iii) Yeast produces _____ gas during respiration.
 - iv) During Pasteurisation, milk is heated upto _____°c for _____secs.

L-18

Air and water pollution

1. Write full form for the following.

- a) CNG
- b) CFC
- c) LPG
- d) RRR

2. Choose the correct option -

i) Which gas is not air-pollutant.

- a) Nitrogen dioxide
- b) Oxygen
- c) Carbon monoxide
- d) Sulphur dioxide

ii) Which of the following is the natural source of air pollution.

- a) Smoke from factories
- b) Pollution from automobiles
- c) Wood for fuel
- d) Volcanic eruptions

iii) Drinking water

- a) Should be clean
- b) Should be odourless
- c) clean, odourless and pure
- d) None of the above

iv) We can reduce air pollution by

- 1) Plantation
- 2) By walking
- 3) By cycling
- 4) All of the above

3. Write names of two green - house gases

- 1 2

4. Name two gases responsible for acid rain.

1 2

5. Mention any two causes of Air - Pollution

1)

2)

6. Name any two causes of water - Pollution

1)

2)

7) Make a poster on Air - Pollution and color it.

L-7

Conservation of Plants and Animals

1. Deforestation means
 - a) Cleaning of forests
 - b) To grow plants
 - c) To look after plants
 - d) None of these

2. The plants found in particular area are termed as .
 - a) Fauna
 - b) Flora
 - c) Endemic species
 - d) wild animals

3. Red data book keeps the record of
 - a) Endangered species
 - b) Sanctuary
 - c) Plants
 - d) Animals

4. Project - Tiger means.
 - a) Hunting of tigers
 - b) Rearing of tigers
 - c) Survival & maintenance of tigers
 - d) All of these

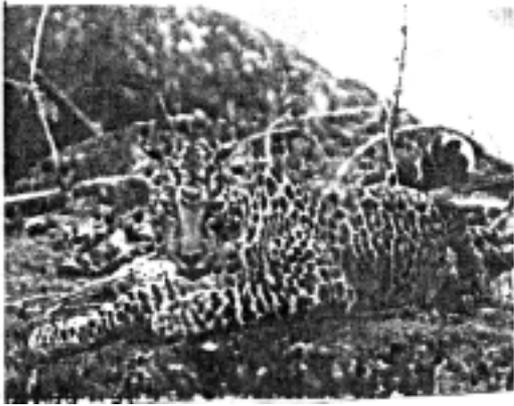
5. Write one word for the following sentences.
(Hint : Ecosystem, National Park, Endangered species, Biosphere reserve, Sanctuary)
 - a) Animals whose numbers are diminishing to a level and they might face extinction _____
 - b) All the plants, animals and micro-organism in an area along with non-living component _____.
 - c) An area where animals are protected from any disturbance to them and their habitat _____.
 - d) An area reserved for wild life, where they can freely use the habitats & natural resources _____.
 - e) A large area of protected land for conservation of wild life, plant & animal resources.

6. Do you Know?

a) How many trees are cut to get 1 tonne paper _____.

b) How many times a paper can be recycled _____.

7. Some animals are given below which belong to Pachmarhi Biosphere Reserve, identify them and write their names.



.....



.....



.....



.....

L-14

Chemical Effect of electric Current

- 1) Give some examples of good conductors and poor conductor liquids -

Good Conductor liquids

Poor conductor liquids

.....
.....
.....
.....

.....
.....
.....
.....

- 2) Show simple electric circuit showing the process of electroplating.



- 3) Fill in the blanks :-

- i) Distilled water is _____ of electricity.
ii) Bulb gets heated and glows due to _____ effect of electric current
iii) The process of depositing a layer of any desired metal on another material by means of electricity is called _____.
iv) Most liquids that conduct electricity are _____, _____ and _____.

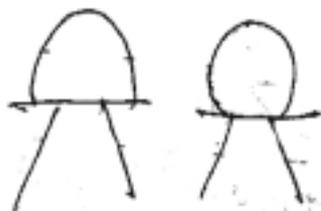
4. Give three examples of electroplating.

- i)
ii)
iii)

5. Match the column _

- | Column 'A' | Column 'B' |
|---|----------------------|
| a) Process of deposition of gold or silver on ornaments | i) Good Conductor |
| b) Carbon rod | ii) Electrode |
| c) Distilled water | iii) Poor conductor |
| d) Vinegar | iv) Electro-plating. |

6. Identify the following pictures and name them -



i)



ii)



iii)

L-11

Force and Pressure

1) Write one word for the following sentences.

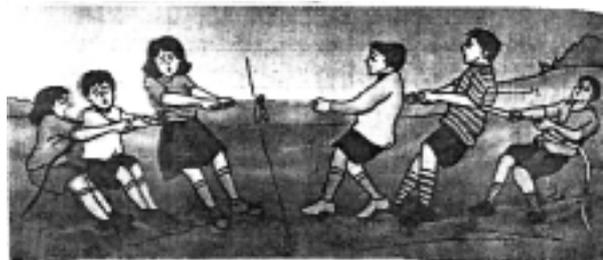
- a) A pull or a push on an object is called _____.
- b) A force exerted by a magnet _____.
- c) A force acting on a unit area of a surface _____.
- d) A pressure exerted by air _____.

2) Suppose a man is standing behind a car. Does the man exert the force on the car?



.....

3) If the members of two teams, in a game of tug-of-war, are trying to pull the rope in their respective directions and the rope does not move. Which team pulls with more force.



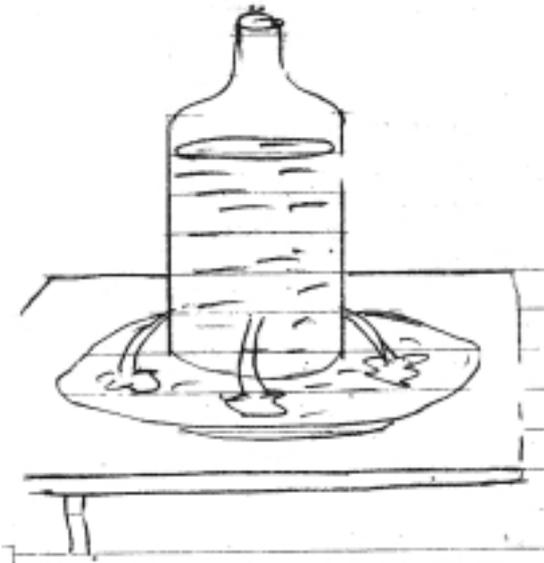
.....

4) In the figures shown below, what conclusion can you draw about the pressure exerted by liquids.



.....

(b)



-
5. A force exerted by a magnet on another magnet is
- a) contact force b) Frictional force
c) Non contact force d) Muscular force
- 6) The weight of air in a column of the height of the atmosphere and area $10\text{cm} \times 10\text{cm}$ is as large as
- a) 1 Kg. b) 10 kg.
c) 100 kg. d) 1000 kg.
- 7) When air is filled in a container, air
- a) Exert pressure at the bottom B) Exert pressure on upper side.
c) Exert pressure on the walls d) Non of these
- 8) The shoulder bags are provided with broad straps.
- a) To decrease the pressure b) To exert more force
c) To increase the pressure d) None of these.

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S.A. 2

Chapter	-12	Friction
Chapter	-8	Cell - Structure and Functions
Chapter	-4	Materials : Metals and Non-Metals
Chapter	-13	Sound
Chapter	-9	Reproduction in Animals
Chapter	-6	Combustion and Flame
Chapter	-10	Reaching the Age of Adolescence
Chapter	-16	Light
Chapter	-15	Some Natural Phenomenon

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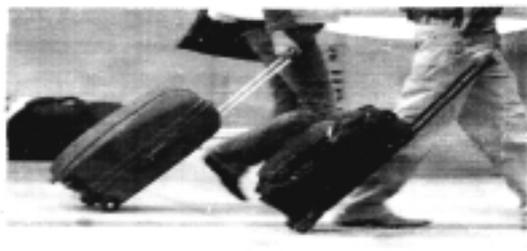
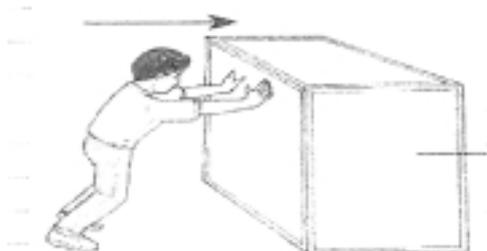
Ms. Suman Rani (TGT N.Sc.)
GSSS, Samaipur
ID : 1310045

L-12 "Friction"

Q.1 A moving ball on a ground stops after some time. Name the force responsible for it.

.....

2. Name the Type of friction in following tow cases :



.....

.....

Out of the above two types of friction name the friction which requires less effort.

.....

3. Match the following :-

- | | |
|----------------------|--|
| i) Bird | a) Measures the force acting on an object. |
| ii) Spring Balance | b) Static friction |
| iii) Moving body | c) Lubricant |
| iv) Reduces friction | d) Drag |

4. Choose the correct option :-

i) Static friction comes to play when the object is

- | | | | |
|--------------------|--------------------------|------------|--------------------------|
| a) Rolling | <input type="checkbox"/> | b) Sliding | <input type="checkbox"/> |
| c) Moves from rest | <input type="checkbox"/> | d) None | <input type="checkbox"/> |

ii) Rolling friction comes to play when the object is.

- | | | | |
|------------------|--------------------------|-----------------|--------------------------|
| a) Rolling | <input type="checkbox"/> | b) Sliding | <input type="checkbox"/> |
| c) Comes to rest | <input type="checkbox"/> | d) all of these | <input type="checkbox"/> |

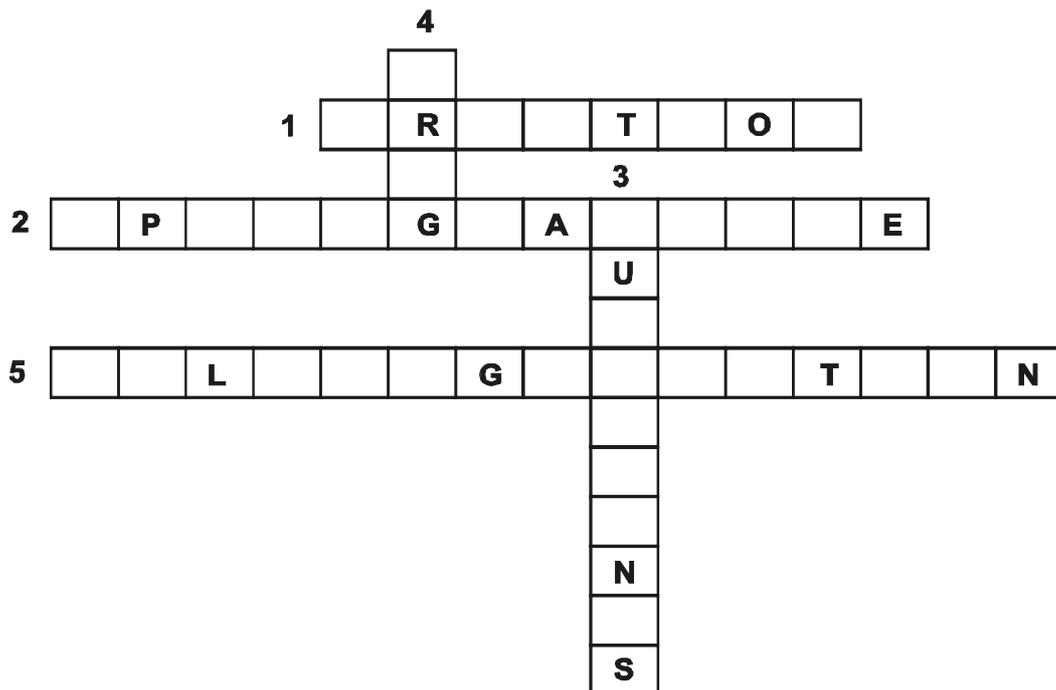
- iii) In many machines, friction is reduced by using :
- a) Ball-Bearing b) Lubricants
 c) Both a & b d) None

- iv) A ball is rolling in north direction, in which direction, does the frictional force act.
- a) North b) South
 c) East d) West

5. Sometimes, force of friction is desirable, give three examples.

- i)
- ii)
- iii)

6. Cross-Word puzzle :-



Hints

- i) Force which opposes motion
 ii) The device used to measure the force acting on an object.
 iii) The substances which reduce friction.
 iv) The resistance to friction when a body rolls over the surface of another body.
 v) The frictional force exerted by fluids.

L-8

Cell - Structure and Functions

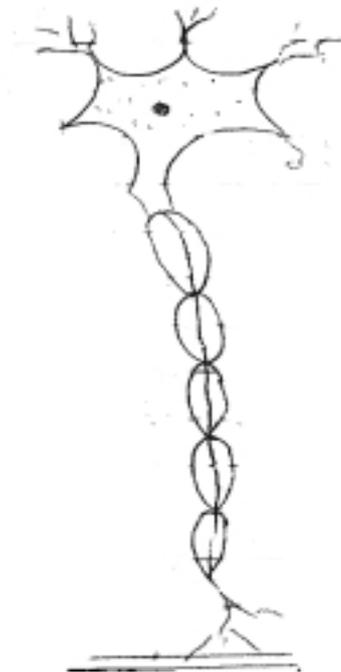
1. Identify the following types of cells :-



----- a)



----- b)



----- (c)

Key - spherical red blood cells of human, nerve cell, Muscle cells

2. The basic unit of life is :

a) Tissue

b) Organ

c) Cell

d) Organ- System

3. The Biggest cell is :

- a) Hen's Egg
- b) Ostrich egg
- c) Nerve cell
- d) None of these

4. Cell which changes its shape :-

- a) Amoeba
- b) WBC
- c) Both of these
- d) None of these

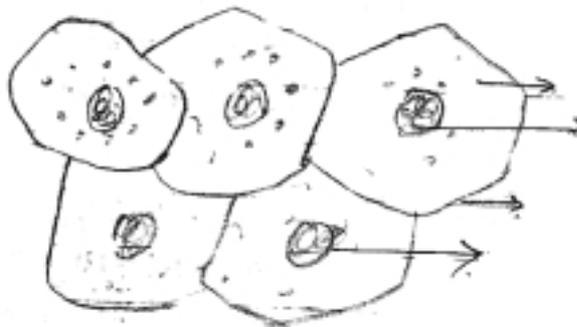
5. Differentiate :-

Animal Cell

Plant Cell

- | | |
|----------|----------|
| 1) | 1) |
| | |
| | |
| 2) | 2) |
| | |
| | |
| 3) | 3) |
| | |
| | |

6. Label the following parts of human cheek cells :-

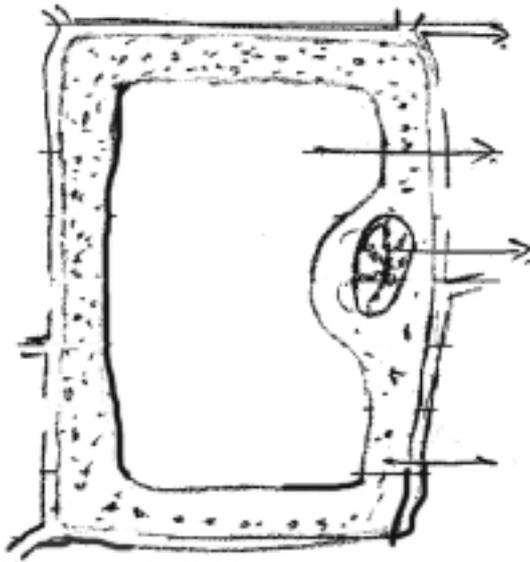


Human cheek cells

7. Give one word for the following :-

- i) Cells having nuclear membrane around the nucleus _____
- ii) Power house of the cell - _____
- iii) Control centre of the cell - _____
- iv) Plastids containing chlorophyll - _____
- v) The membrane which separates nucleus and cytoplasm _____

8. Name different parts of plant cell :-



Plant - Cell

L-4

Materials : Metals and Non-Metals

1. Following diagrams explain which Properties of metals .

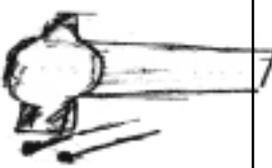
Beating iron nail with hammer

Passing electricity through any
Material

.....

.....

2. Complete the following table --

			Conductor / Insulator
4) _____ 5) Wood 6) Rubber 7) Pencil lead 8) Salt solution			

3. Which gas burns with a pop sound

- | | | | |
|-------------|--------------------------|------------------|--------------------------|
| a) Hydrogen | <input type="checkbox"/> | b) Nitrogen | <input type="checkbox"/> |
| c) Oxygen | <input type="checkbox"/> | d) Carbondioxide | <input type="checkbox"/> |

4. The property of metals, due to which they can draw into wires.

- | | | | |
|----------------|--------------------------|-----------------|--------------------------|
| a) Conductance | <input type="checkbox"/> | b) Sonorous | <input type="checkbox"/> |
| c) Ductility | <input type="checkbox"/> | d) Malleability | <input type="checkbox"/> |

5. Nature of metal oxide is :

- a) Basic b) Acidic
c) Neutral d) None of these

6. Non- metal, solution of which is used as an antiseptic on wounds.

- a) Potassium Dichromate b) Potassium permanganate
c) Sodium chloride d) Copper Sulphate

7. Name the following type of reaction :-

Copper sulphate (CuSO_4) + Zinc (Zn) = Zinc Sulphate (ZnSO_4) + Cu (Copper)
_____ (Displacement / addition)

8. Write any three differences between metals and non-metals on the basis of following characters -

Property	Metal	Non-Metal
1) Appearance	_____	_____
2) Conduction of heat	_____	_____
3) Malleability	_____	_____
4) Ductility	_____	_____

Write one word for the following :

- i) Materials having properties of both metals and non-metals _____.
ii) The property of metals due to which they produce sound _____.
iii) The property of metals due to which they can be beaten into sheets _____.
iv) Nature of metal oxides is _____.
v) The property of metals by virtue of which they can be drawn into wires _____.

L-13 Sound

1. Identify the part in the following musical instruments which is responsible for producing sound :



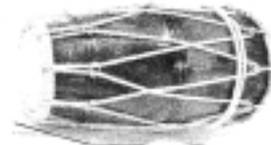
EKTARA



TABLA



FLUTE



DHOLAK



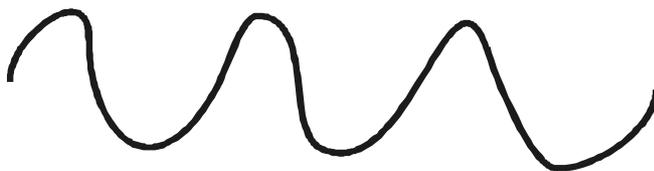
SITAR



HARMONIUM

2. Fill in the blanks :-
- In human beings, sound is produced by _____.
 - Sound needs any medium to travel, it cannot pass through _____.
 - No of oscillations per second is called _____.
 - The audible range of frequency is _____.
3. Which sound out of the following two is a noise.

a)

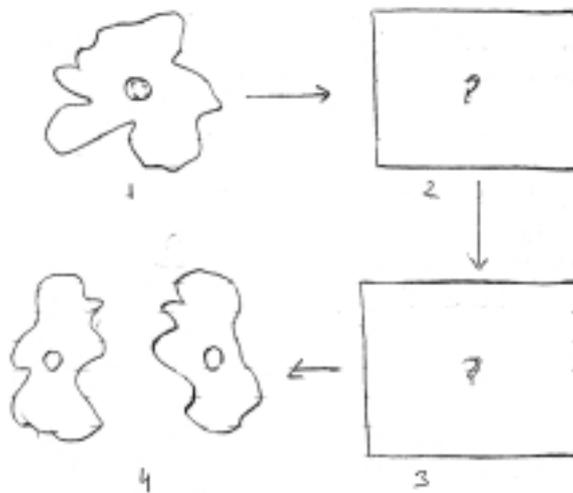


L-9 Reproduction in Animals

1. Write one word for following sentences.
 - a) Fusion of male gamete and female gamete _____.
 - b) Name of male gamete _____.
 - c) Name of female gamete _____.
 - d) Fertilisation which takes place inside the female body _____.
 - e) Fertilisation which takes place outside the female body _____.
 - f) Animals which lays eggs _____.
 - g) Animals which give birth to young ones _____.
 - h) Drastic changes which transform larva into adult _____.

2. Two modes of reproduction _____

3. Complete the asexual reproduction in amoeba by drawing the figure.

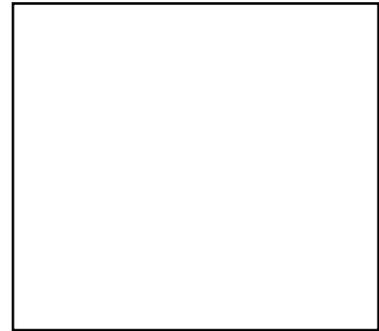
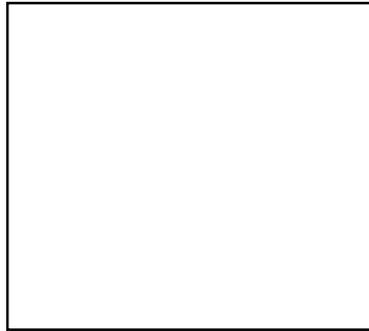


4. Label the following figure and also identify the figure.

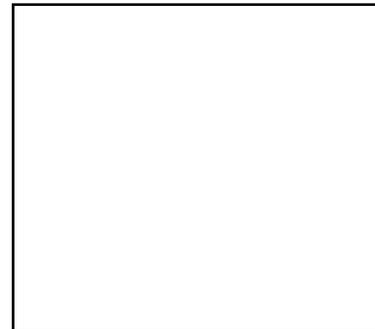


5. Paste the figure of Oviparous and viviparous animals

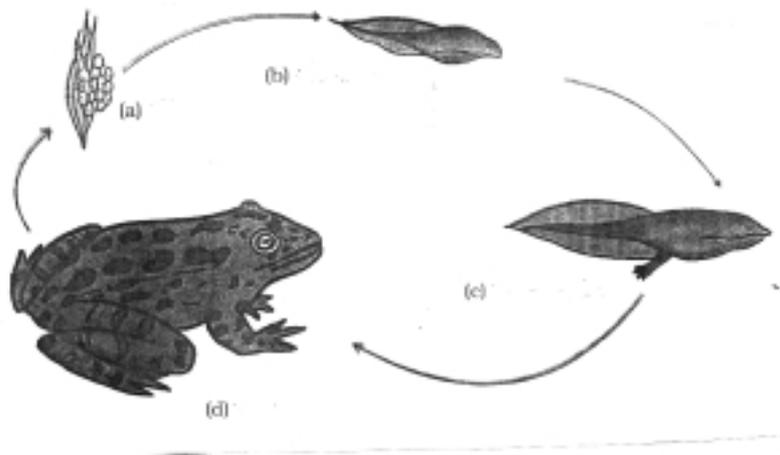
Oviparous animals



viviparous animals



6. Observe and write the different stage of life cycle of a frog.



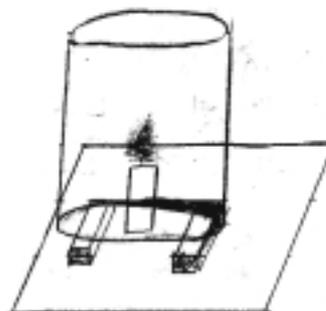
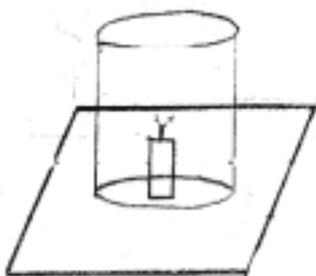
L-6 Combustion and Flame

Q.1 Label the various zones of candle flame and answer following questions



- i) The hottest part of the flame _____.
- ii) Unburnt wax - vapours are found in which part of the flame _____.

Q.2



by observing the above two figures, explain why candle extinguishes in case (A) and is still burning in case (B)

.....
.....

3. Match the suitable and appropriate equipment you will use to control fire in different cases.

- | | |
|---------------------------|------------|
| a) Short Circuit | b) Water |
| c) A man caught with fire | d) Blanket |

4. The gas helpful in combustion is

- | | |
|-------------|------------------|
| a) Oxygen | b) Carbondioxide |
| c) Nitrogen | d) Hydrogen |

5. combustion, which produces both heat and light :

- | | |
|---------------------------|------------------|
| a) Spontaneons combustion | b) Explosion |
| c) Rapid Combustion | d) None of these |

6. The fuel with highest calorific value is :

- | | |
|-----------------|-------------|
| a) L.P.G. | b) Petrol |
| c) kerosene Oil | d) Hydrogen |

7. Of the following inflammable substance is :

- | | |
|-----------|-----------------|
| a) Petrol | b) Coal piece |
| c) Wood | d) All of these |

8. Cleaner fuel is :

- | | |
|-----------|-----------|
| a) Diesel | b) Petrol |
| c) C.N.G. | d) L.P.G. |

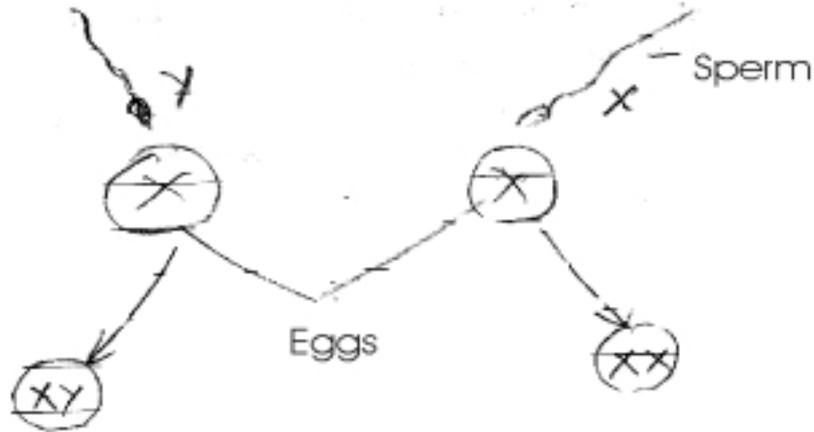
9. Write one word for the following :

- i) The lowest temperature at which a substance catches fire. _____
- ii) Oxides of sulphur and nitrogen are dissolved in rain water, such rain is Called _____.
- iii) The amount of heat energy produced on complete combustion of 1 kg. of a fuel _____.

L-10

Reaching the age of Adolescence

1. After studying the following diagram, determine the sex of the child



2. Complete following table :

Hormone	Gland secreting the hormone
Thyroxine
.....	Pancreas
Growth Hormone
.....	Testis
Estrogen

3. Fill in the blanks -

- i) Reaching the age of adolescence, the protruding part of the throat in boys is called _____.
- ii) Hormone secreted by testis is _____.
- iii) Stoppage of menstruation is called _____.
- iv) Pituitary gland secretes a hormone _____ responsible for the growth.

4. Write any three secondary sexual characters in boys and girls on reaching the age of adolescence.

Boys

Girls

- i)
- ii)
- iii)

5. During the period of adolescence, children should eat which type of food and which not.

Should eat

Should be avoided

- i) 1)
- ii) 2)
- iii) 3)
- iv) 4)

Fruits, Burger, Milk, Pizza, Chocolates, Pulses, Chips, Vegetables.

6. Write a slogan on junk - food

.....

L-15

Some Natural Phenomena

Q.1 Fill in the blanks :

- a) A device which is used to test whether an object is carrying charge or not is known as _____.
- b) The process of transferring of charge from a charged object to the earth is called _____.
- c) _____ is a device used to protect buildings from the effect of lightening.
- d) Negative and positive charges meet, producing streaks of bright light and sound in clouds, this process is called an _____.
- e) The power of an earthquake is expressed in terms of a magnitude on a scale called the _____.

Key words :- Richter scale, electroscope, earthing, lightening conductors, Electric discharge

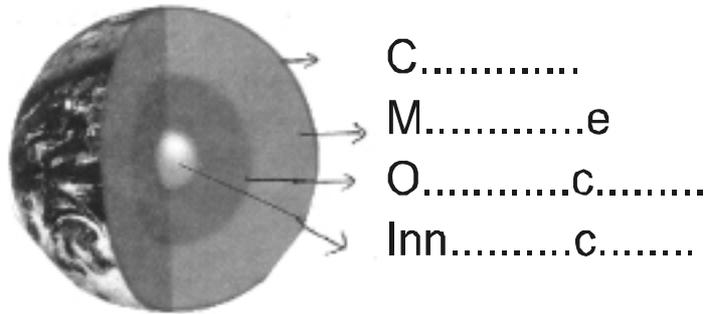
Q.2 Write the following sentences in the correct boxes.

- a) Carrying an umbrella is a good idea during thunderstorms.
- b) Open cars are not safe.
- c) Stay far away from all trees.
- d) Lie on the ground.
- e) Squat low on the ground.
- f) Don't touch electrical wires and metal pipes
- g) Use mobile phones.
- h) Bathing should be avoided.

Do's during a thunder storm

Don'ts during a thunderstorm

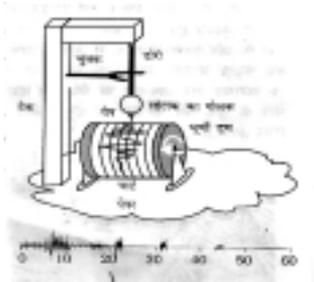
Q.3 Label the following diagram



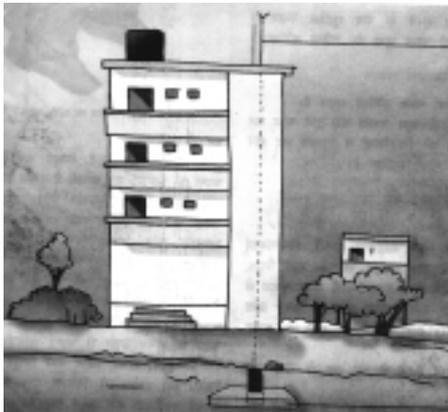
Structure of the earth

Q.4 Name the following instruments.

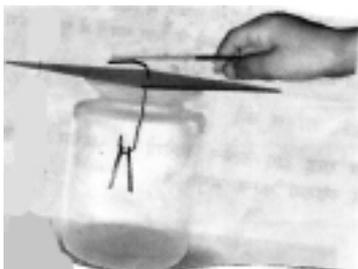
a)



b)



c)



Q.5 Here are a few precautions to make 'Quake safe' buildings. Write 'true' in front of the right statement and 'false' in front of the wrong statement.

- a) Consult qualified architects and structural engineers. _____.
- b) In highly seismic area, the use of mud or timber is good. _____.
- c) In highly seismic area, the use of heavy construction material is good. _____.
- d) It is better if the cup boards and shelves are fixed to the walls. _____.
- e) All buildings, especially tall buildings, have fire fighting equipments in working order. _____.