Cell and its basic structure

1.	Na	me the material used by Robert Hooke to coin the term cell.	
2.		is a cell having fibre like structure.	
3.	What is the reason for difference in the shapes of cells?		
4.	'So	me cell can be seen with naked eyes.' Justify with help of example.	
5.	The	e basic living substance of a cell is	
6.	Na	me the part of cell which acts as gate of cell.	
7.	a) <i>A</i>	As brain is to body; is to a cell.	
		b) As organ is to body; is to a cell.	
8.	Th	e organelle whose presence in the plant cell makes a plant an auto troph is	
9.	Но	w does presence of tissue help a multi cellular organism to survive?	
10	. Na	ame the part of cell responsible for inheritance of characters.	
11	. Th	e organelle responsible for processing and packaging of material produced by the cell is	
12	. 'Ev	en though both plant and animal cell are structural and functional unit of life, yet they are	
	diff	ferent 'discuss.	
13	. Ho	w is SER different from RER?	
14	. Sor	me cells have extensions on their cell membrane which help in locomotion and collection of	
	foc	od. These extensions are known as	
15	. Wh	ny is chloroplast present only in plant cells?	
16	. Dra	aw a diagram of plant cell and label-	
	a)	the powerhouse of the cell	
	b)	the pigment imparting organelle	
	c)	store house of the cell	
	d)	brain of the cell.	
	e)	regulates the entry and exit of materials from the cell .	
17	. Rea	ad the following statement and write the appropriate term against each statement.	
	a)	I control functions of cell. Who am I?	
	b)	I am like a policeman. I do not allow anything and everything to go in and out of cell. Who	
		am I?	
	c)	I transfer characters from parent to off springs. Who am I?	

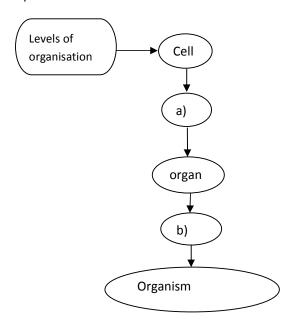
18. Is the following statement correct? If it is wrong, correct the statement.

Statement 'Unicellular organism do not respire, only multi cellular respire. '

- 19. Give an example of prokaryotic cell.
- 20. Under a microscope Ravi observes a cell that has no cell wall and no fixed distinct shape. The cell he observes is ______.
 - a) Plant cell b) Ostrich egg c) an animal cell d) a bacterial cell (c)
- 21. Cheek cells do not have _____.
 - a) cell membrane b) golgi apparatus c)nucleus d)plastid (d)
- 22. We do not sense any pain when we clip our nails or cut our hair. Why?
- 23. The size of the cell of an organism has no relation with the size of its body. Do you agree? Give reason for the answer.
- 24. Cell consists of many organelles, yet we do not call any organelles as structural and functional unit of living organism. Explain.
- 25. Which of the following is not a cell?

a)red blood cell b)bacterium c)spermatozoa d)virus (d)

26. Fill up



а

Micro organism - Friends and Foes

1.	"Virus is an enigma of biology " justify
2.	The harmful substance released by microorganisms in our body which causes disease in us is
	·
3.	Diseases which can spread from one person to another through contact, insect, air, water or
	food is a disease.
4.	During the Irish famine the complete destruction of potato crop was caused due to
	·
5.	In a village situated next to a very large water body, the villagers were using net and insect
	repellent. Why?
6.	A farmer goes to his field he sees that there are lesions on leaves , stem and fruit with
	brown water soaked margins on lemon plant
	a) Name the disease by which lemon plant is infected.
	b) What has caused the disease in the plant?
7.	After a child is born he is given vaccine at specific time by his doctor. Why?
8.	My mother was cooking vegetable for that she needed oil. When she opened the can of oil
	she was getting disagreeable odour from it.
	a) Why was disagreeable odour coming from the can?
	b) Should she use that oil for cooking?
9.	Why do we dry food stuffs for preservation?
10.	What is the basic principle behind all food preservation methods?
11.	"Even though microbes cause lot of problems for us we cannot live without them " justify
12.	Name the person responsible for establishing the existence of bacteria.
13.	What is immunity?
14.	How can microorganism be used in Agriculture?
15.	How do micro organism help in process of cleaning of environment?
16.	Give an example of insect which act as carrier of a disease.
17.	Give reasons for the following
	a) Fresh milk is boiled before consumption while processed milk in packet can be consumed
	without boiling.
	b) Raw vegetables and fruits are kept in the refrigerators whereas jams and pickles can be
	kept outside .

c) Farmers prefer to grow beans and peas in nitrogen deficient soils.

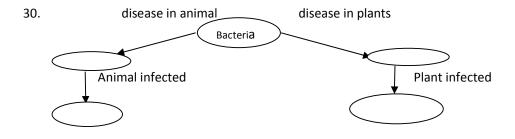
- d) Mosquitoes can be controlled by preventing stagnation of water though they do not live in water. Why?
- 18. What will happen to pooris and unused kneaded flour if they are left in the open for day or two?
- 19. a) Name the gas released during the preparation of bread.
 - b) The stem of an infected plant ,has dull red and white patches across the stalk and elongated red lesions on the mid rib of leaves.
 - i) Identify the disease with which plant is infested .
 - ii) Name the pathogen responsible for this disease.
- 20. Geeta dug 2 pits A and B in the garden . In pit A she put a polythene bag with some agricultural waste. In pit B she dumped the same kind of waste without packing in the polythene bag. She, then covered both the pits with soil. What did she observe after 1 month?
 - a) Waste in pit A degraded faster than that in pit B.
 - b) Waste in pit B degraded faster than that in pit A.
 - c) Waste in both the pits degraded equally.
 - d) Waste in both did not degrade
- 22. Polio drops are not given to children suffering from diarrhoea. Why?

21. Name the process by which yeast converts sugars to alcohol.

23. Why should we avoid standing close to a tuberculosis patient while he /she is coughing?

(b)

- 24. What do you understand by biological nitrogen fixing?
- 25. The causative organism of smut of rice is
 - a) bacteria b)virus c)fungus d)protozoa (c)
- 26. Classify the following into friendly and harmful microorganism: --Tobacco mosaic virus, Lactobacillus, Rhizobium, Staphylococcus.
- 27. How do bacteria cause tooth decay?
- 28. Name any one antibiotic obtained from a) fungus b) bacteria.
- 29. Micro organisms are harmful to organisms living in water bodies. Explain.



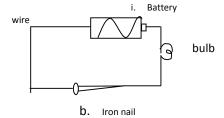


Metals and Non Metals

- 1. How is a pure substance different from compound?
- 2. What is classification of elements?
- 3. How is mineral different from ore?
- 4. If I want to extract aluminium from bauxite. What are the different steps I need to follow?
- 5. Compare the physical properties of metal with non-metal.
- 6. When a metal is stuck with something hard a ringing is produced.
 - a) Which property is metal exhibiting?
 - b) Specify a use metal can be put to due to this property.
- 7. All metals are generally solid at room temperature except
- 8. Silicon and Germanium are different from Iron, how?
- 9. When Ram had placed an iron bar in open he noticed that a reddish brown layer appears on the iron bar.
 - a) What is the layer known as?
 - b) Write down the chemical equation responsible for it.
- 10. Why cannot we store curd and pickles in copper utensils?
- 11. Mg (s) + CuSO₄ (aq) ----- MgSO₄ (aq) + Cu (s)
 - a) What type of reaction does the equation represent?
 - b) Why is magnesium able to replace copper from copper sulphate?
- 12. Even though silver is very good conductor of electricity it is not used commonly for electrical fittings, why?
- 13. What is an alloy? Give an example of an alloy used for making
 - (a) aircraft bodies (b) magnets.
- 14. If you study reactivity series of metal i.e. K, Na, Ca, Mg, Al, Zn, Fe, Sn, Pb, Cu, Hg, Ag, Au, Pt.
 - (a) Which metal is most reactive?
 - (b) Which metal is least reactive?
- 15. Name the metals used for making German silver and brass.
- 16. Zinc sulphate forms a colourless solution in water. Will you observe any colour on adding copper turnings in it?
- 17. Consider the following reactions :--
 - a) A+ BX -----AX+ B
 - b) A +CY----- AY +C

Arrange A, B, C in increasing order of their reactivity.

18. In figure given below you find that the bulb glows when an iron nail is placed between two ends of wire. Complete the following sentences on that basis.



	(a)	is a metal	
	(b)Me	etals are good	of electricity.
	(c) If ire	on nail is replaced by a wo	poden stick will the bulb glow or not? Justify your answer.
19.	A purp	le –coloured non-metal fo	orms a brown solution in alcohol which is applied on wounds
	as an	antiseptic. Name the non	- metal.
20.	State v	hether given statement i	s true / false :
	i.	The process of obtaining	g metal in its free state from its ore is called 'Refining of ore "
	ii.	Aluminium is the most a	bundant metal in the earth's crust.
	iii.	Iodine is the only metal	which has lustre.
	iv.	Gold is the only metal th	nat occurs in native state.
	٧.	Silicon is the element th	at has properties of metals as well as non- metal.
21.	Fill in t	he blanks :	
	i.	Aluminium is extracted	from ore.
	ii.	The process of removal	of impurities from the ore is called
	iii.	is a metal that	exists in liquid state.
	iv.	A mineral is a naturally of	occurring substance found deep under the surface
		of earth.	
	٧.	a form of carbor	n is the hardest substance.
22.	One wo	ord answer :	
	1 Name	e the metal which exists i	n liquid state at room temperature.
	2 Whic	h metal is extracted from	haematite ore?
	3 Find	the odd one out: Sulphu	r, nitrogen, oxygen, chlorine.
	4 List a	ny two physical propertie	s of metal due to which it is used for making cooking
	utensil	S.	
	5 What	t do you understand by th	e term 'Malleability?
	6 Write	the composition of an al	loy being used for making table ware .
23.	Match	the following	
	A.	a)bauxite	i)combined state of carbon
		b)concentration of ore	ii) free state of carbon
		c) fullerenes	iii) aluminium
		d) bicarbonates	iv)removal of impurities from ore
	В.	a)mercury	i)good conductor of electricity
		b) iodine	ii)metal in liquid state
		c) bromine	iii) lustrous non-metal
		d) graphite	iv) non-metal in liquid state
	C.	a) gold	i)electrical cables
		b) copper	ii)noble metals
		c) aluminium	iii)decorating food stuffs
		d) silver	iv)aircrafts body
	D.	a)stainless steel	i)magnets
		b) brass	ii)automobile parts
		c) duralumin	iii) surgical implements
		d)alnico	iv) decorative statues.
	E.	a)gun powder	i) diamond
		b)antiseptic	ii)sulphur

c) match box iii) iodine d)cutting tools iv) phosphorus

- 24. Sneha was eating chocolate and while throwing the wrapper she thought out of curiosity that will the wrapper act as a conductor of electricity or not . For this she made an electric circuit and to her surprise the bulb started glowing when she placed the chocolate wrapper in the circuit.
 - i) Name the metal used in making the wrapper of chocolate.
 - ii) Which property of this metal is responsible for converting it into wrapper?
 - iii) Mention any other application of this metal.
- 25. Riya went with her mother to a jewellery shop to purchase jewellery. Her mother asked the jeweller to show them jewellery in pure gold and it should not be mixed with any other thing.
 - i) Was Riya's mother right for asking jewellery in pure gold? If no , give reason
 - ii) Which two metals are mixed with gold for making jewellery.

Force and Pressure

- 1. What brings about change in direction and speed of motion?
- 2. When a very small body hits a large body, the forces acting on them is equal in magnitude and opposite in direction, than what is the effect of this on both the bodies?
- 3. What are the various changes force can bring about in an object?
- 4. Suppose we have a loaded truck and a car, and we exert equal force for the same time on both of them. Which of them will pick more speed and why?
- 5. The two factors on which applied force depends upon are _____and_____and_____
- 6. The net force when 2 unbalanced force F1& F2 are acting in the same direction is
- 7. A block of wood remains stationary even though force is being exerted on it from both sides, why?
- 8. 'A small boy throws a ball upward, after little while the ball falls down on ground itself' why?
- 9. If we suspend a ebonite rod (charged) and now we bring a charged glass rod near it. What will happen and why?
- 10. Pressure is inversely proportional to ______or pressure =-----/area.
- 11. Why do buses and truck have double wheel on the rear side?
- 12. When we have water in a container with holes we find the water coming out of lowest hole goes farthest why?
- 13. Why are we able to drink cold drink with straw from a bottle?
- 14. What holds the rubber sucker used for installing hooks on a wall tightly?
- 15. During dry weather, clothes made of synthetic fibre often stick to the skin which type of force is responsible for the phenomenon.
- 16. While sieving grains, small pieces fall down. Which force pulls them down?
- 17. Ram while drinking cold drink with a straw started playing with it and kept his thumb on the top of the straw with cold drink in it. He was surprised to see that cold drink was not flowing out of it .What is the reason behind the observation. Also give one application of the scientific principle involved in the above situation.
- 18. A chapatti maker is a machine which converts ball of dough into chapatti. What effects of force comes into play in the process?
- 19. Two persons are applying force on 2 opposite sides of moving cart. The cart still moves with same speed in the same direction. What do you infer about magnitude and direction of the forces applied?
- 20. Two rods of the same weight and equal length have different thickness. They are held vertically on the surface of sand. Which one of them will sink more? why?
- 21. Two thermocol balls held close to each other move away from each other when they are released. Name the force which might be responsible for this phenomenon. Explain.
- 22. Find the magnitude of the resultant force

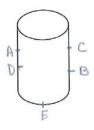


- 23. Balanced force may cause
 - a) Change in state of rest

- b) Change in state of motion
- c) Change in size and shape of an object
- d) All the above.
- 24. Find the pressure exerted by a rectangular box of weight 108 N and dimension 6m X2m
- a) 12N/m²
- b)18 N/m²
- c) 9N/m²
- d)108N/m²
- 25. In the following given situation, find the example of non contact force.
 - a. Squeezing a piece of lemon
- b. Picking of scattered iron pins with help of magnet
- c. A labourer moving a loaded cart d. A ball moving on ground comes to rest.
- 26. Which of the following is not the property of liquid pressure:
 - i) Liquid pressure depends on the height of the liquid column.
 - ii) Liquid pressure depends on the density of the liquid
 - iii) Liquid pressure acts equally in all direction.
 - iv) Liquid pressure depends on the shape of container.

v)

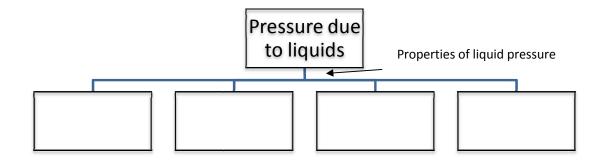
27. A container is filled with water has taps fixed at points A,B,C,D as shown in the figure. Which are of the two points has same pressure?



- a) A and D
- b) A and C
- c) C and B
- d) E and B
- 28. Find the odd one out
 - a) Muscular force
- b)Gravitational force
- b) Magnetic force
- d)Electrostatic force

29. Match the following

Column I	Column II
a. The force that acts on all bodies by other body	i) Balanced Force
b. The force that acts on object without contact	ii) Electrostatic Force
c. Resultant zero	iii) Gravitational Force
d. The force act on charge particle by other charged particle	iv) non contact
30. Fill in the blanks	
a) Force has both and	
b) We can reduce the pressure of a given force byacts.	_ the area over which the force
c) Unit of Pressure	
d) The atmospheric pressure as we move towards	higher altitude.
e) When thrust is doubled, pressure is	
31. Fill the blank	



32 Give one word	
a) Pressure exerted by a stationary liquid	_•
b) Force in a direction perpendicular to a given surface area	

c) A pair of forces whose resultant is zero ______.

33 Complete the following table:---

S.No.	Description of Situation	Nature of forces	Kinds of force
1.	Falling of fruits on ground	a)	d)
2.	Expansion of lungs when we inhale and exhale during breathing	b)	e)
3.	A rocket fired upwards to launch a satellite in its orbit.	c)	f)

34. Give an example that illustrates that change in temperature may cause change in atmospheric pressure.

FRICTION

- 1. Will force of friction come into play when rain drops rolls down a glass window pane?
- 2. The handle of cricket bat or badminton racquet is usually rough, why?
- 3. What is limiting friction?
- 4. What is easier rolling or sliding?
- 5. How does the friction get affected by the nature of surface?
- 6. It is easier to hold a earthen pot than to hold a smooth glass tumbler. Why?
- 7. Why do kabaddi players rub their hands with soil?
- 8. What is lubricant? Why do we use it?
- 9. How proper inflated tyre save fuel?
- 10. A marble is allowed to roll down an inclined plane from a fixed height. At the foot of inclined plane, it moves on horizontal surface.
 - a) Covered with silk
 - b) Covered with a layer of sand and
 - c) Covered with glass sheet.

On which surface marbles move the shortest distance. Give reason for your answer.

- 11. When cutting edge of knife is put against fast rotating stone to sharpen it, sparks are seen to fly. Explain the reason.
- 12. We have two identical metal sheets. One of them is rubbed with sand paper and other with ordinary paper. The one rubbed with sand paper shines more than other. Give reason
- 13. Friction 'An Evil or Nuisance 'justify.
- 14. How can we increase friction?
- 15. What helps to fix nail / screw on the wall?
- 16. What leads to skidding of vehicle on snow covered roads?

Another name for sliding friction is	·	
18. The force of friction depends on		and

Sources of Energy

1.	What is water gas?		
2.	What does CNG stand for and why is it considered to be better fuel than petrol?		
3.	We read in the newspaper that burning of fuels is major cause of global warming. Explain why		
4.	Imagine that all the exhaustible natural resources are exhausted by human activities. Do you		
	think survival of living being would be impossible? If yes, why? If not why not?		
5.	is hard coal and contains over 90% carbon.		
6.	is a soft brown substance which is made of 30% carbon and the earliest stage during	ıg	
	coal formation.		
7.	Where do you find the natural gas in the earth?		
8.	Name the product of destructive distillation of coal which is used to manufacture synthetic		
	dyes, drugs, explosive, roofing material.		
9.	is inflammable gas used as both domestic and industrial fuel.		
10.	Petroleum, because of its great commercial importance is known as		
11.	Sunlight and air are inexhaustible natural resource. Comment.		
12.	Choose the correct statement from the following :		
	a) It is difficult to transport natural gas through pipes		
	b) The disadvantage of natural gas is that it cannot be used directly for burning in homes.		
	c) Natural gas is stored under high pressure as compressed natural gas.		
	d) Natural gas cannot be used for power generation.		
13.	Fill in the blanks		
	i) Coal is one of the used to cook food.		
	ii) When heated in air, coal burns and produces mainly gas.		
	iii) Coal tar is black thick with an smell.		
	iv) Petroleum, and are fossil fuel.		
	v) Sun and wind are sources of energy.		
	vi) The slow process of conversion of dead vegetation into coal is called		
	vii) Coal and Petroleum are formed from dead remains of organism and are known as		
	viii) During the processing of coal to get coke, coal tar and are also obtained.		
	ix) The process of separating various constituent of petroleum is known as		

14. Match the following		
i. Column I	Column II	
a)used for road surfacing	i) Black gold	
b) Natural gas	ii) Vaseline and candles	
c) Petroleum	iii) Bituman	
d) Paraffin wax	iv) CNG	

x) Excessive burning of fossil fuel is a major cause of ______.

- 15. Name the fraction of petroleum used for making ointments and candle.
- 16. Write the name of four different varieties of coal.
- 17. Which product of coal is used in extraction of metals?
- 18. Which fossil fuel is used as base ingredient in the manufacture of fertilisers and chemicals?

COMBUSTION

- 1. Anu wants to boil water quickly in a test –tube. On observing the different zones of flame, she is not able to decide which zone of flame will be best for boiling water. Help her in the activity.
- 2. If you hold a piece of iron with pair of tongs inside a candle flame or Bunsen burner flame . What will you observe? Will it produce a flame?
- 3. Cracker on ignition produces sound. Why?
- 4. What do you understand by fuel efficiency?

5.	Fill in the blanks	
	a)	A process in which substance reacts with to give off heat is
		called combustion.
	b)	When the clothes of a person catch, the person is covered with a
		to extinguish fire.
	c)	The temperature at which a substance catches fire is called its
		temperature.
	d)	The substance which have very ignition temperature can easily catch fire with
		flame are called substances.
	e)	The substance which vaporize during, give flame.
	f)	The amount of heat energy produced on complete combustion of 1 kg of fuel is called its

- 6. Indicate whether given statement are True or False
 - a) Air is necessary for combustion.
 - b) Magnesium is non -combustible metal.
 - c) Carbon dioxide is an excellent fire extinguisher.
 - d) Calorific value of wood is higher than that of coal.
- 7. Match the following

Column I

a) oxides of Sulphur and Nitrogen

b) CNG

ii) incomplete combustion of coal

iii) very low ignition temperature

d) Inflammable substance

e) Carbon dioxide

v) necessary of combustion

f) Carbon monoxide

column II

i) fire extinguisher

ii) incomplete combustion of coal

iii) very low ignition temperature

v) acid rain

v) necessary of combustion

vi) fuel of automobiles

- 8. Why does white phosphorus catch fire spontaneously?
- 9. Why a match stick can be lighted by striking its tip with any rough surface?
- 10. The flame of a burning candle goes off when we blow air over it strongly, why?
- 11. Why should not we use water to extinguish the fire caused by electric short circuit?
- 12. Name the gas released in the environment due to combustion of fuel leading to global warming.
- 13. How does the burning of coal and diesel lead to acid rain?
- 14. In which part of the candle flame do you find the un-burnt wax vapour?

- 15. If we hold a glass slide in the luminous part of the flame, we see a circular greyish black ring on the slide with no deposition in the centre of the ring. Explain what causes such a formation?
- 16. What is an explosive combustion?
- 17. What do you understand by kindling temperature?
- 18. How is smog produced?
- 19. Why is use of fuel like petrol, diesel in automobiles being replaced by CNG?
- 20. If we bring a burning matchstick near a paper and a piece of wood . Which of them will burn and why?
- 21. Give one word for following:
 - a) Amount of heat energy produced on completely burning one kilogram of a fuel in pure oxygen.
 - b) The minimum temperature at which a given substance begins to burn.
 - c) A region of burning gases.
- 22. What happens when there is incomplete combustion of fuel?

Conservation of Plants and Animal

- 1. How does deforestation lead to extinction of plants and animal?
- 2. If deer in a given forest are killed, will this effect the ecosystem of forest?
- 3. Name the national park which houses two third of world's one- horned rhinoceros population.
- 4. What is wildlife refuge?
- IUCN stands for _______.
- 6. Name a species endemic to the western ghats of south west India.
- 7. What do you understand by paper recycling?
- 8. What is vulnerable species?
- 9. What are the major reasons of deforestation?
- 10. Why is it important to conserve forests?
- 11. Mention any one step that you have undertaken to conserve trees.
- 12. Can a forest regenerate naturally in short period of time?
- 13. Name the first National park of India.
- 14. Why are wildlife sanctuaries important for conservation of plants and animals?
- 15. How does forest play a significant role in determining the climate of a place?
- 16. 'Tiger is considered an endangered species.' Give reason.
- 17. How does deforestation lead to frequent floods and drought?
- 18. Why should we save paper?
- 19. Who publishes the red data book? What does it contain?
- 20. Give example of 2 migratory birds which are found in Jayakwadi Bird Sanctuary in Aurangabad.
- 21. A group of cats are found in a forest that interbreed freely. What is the term used for them.
- 22. Name some projects and programmes started by Indian government to promote wild life awareness.
- 23. What important points we should keep in mind for reforestation?

Crop Production and its Management

- 1. How are autotrophs different from heterotrophs?
- 2. What is crop production?
- 3. What are the two broad cropping patterns on the basis of particular season of growing?
- 4. What are the benefits of ploughing and tilling?
- 5. Why does the farmer use leveller in the field after ploughing / tilling?
- 6. What do you understand by broadcasting?
- 7. Name 2 plants which are sown by method of transplantation.
- 8. How does field fallow help in replenishing the soil?
- 9. What is green manure? Give its example also.
- 10. How does green manure help in maintaining fertility?
- 11. What is water logging? How does it affect the growth of plant?
- 12. Name the method of irrigation which should be used in the area of acute water shortage and why?
- 13. Why should we judiciously use weedicides and pesticide in the field?
- 14. What is green revolution?
- 15. What do you understand by hybridisation?
- 16. Fill in the blanks

1)	A tall tower like structure used for storing grains is known as
ii)	Separation of grains from the chaff is known as
iii)	is the process of cross breeding two different varieties of plant.
iv)	of irrigation is generally used in area with uneven land and having soil
	with poor water holding capacity.
v)	Organisms like rats, locusts and we evils etc which specifically attack and destroy crop
	are known as
vi)	Harvesting of crops like wheat and rice is done with the help of

- 17. What are the different ways by which threshing of grains is done?
- 18. Where are the fruits and vegetables stored on large scale and why?
- 19. What are organic foods?
- 20. Despite favourable conditions, a farmer's crop failed to give good yield .Give the possible reasons for this.
- 21. Paddy is major cereal crop in our country.
 - a) In which season is paddy cultivated?

- b) Explain the method of its sowing.
- c) What measures must be taken to prevent spoilage and insect attack of harvested grains.
- 22. Which activity of the farmer can promote growth of earthworm and microbes in the field?
- 23. If you have dry piece of land for cultivation, what will you do before sowing of seeds
- 24. Given below is a conversation between 2 farmers. Carefully read it and answer the questions based on it.

Heera: Brother Beera, your maize crop looks beautiful. They have grown pretty fast.

Beera: Yes, I have sprayed urea this time. What about you?

Heera: well, I am still relying on good old cow dung. I am saving money for buying a tractor.

Beera: That's good tractor saves a lot of time and labour.

Heera: Yes, it's been very labour intensive for me and now these weeds have come up.

Beera: Try weedicide they are effective

- i) List the practices which are not environment friendly and why?
- ii) What is the advantage of modern agriculture implements over traditional ones?
- iii) Name one weedicide and the precaution, farmers must take during its application.
- 25. Give an appropriate term for each of the following:-
 - a) Chemical substance rich in particular nutrient.
 - b) Plants of same kind grown in a field on large.
 - c) Process of loosening and turning of soil.
- 26. What is vermi composting?
- 27. What does FCI stand for?
- 28. Why the soil is loosened before seeds are sown?
- 29. What is the time and stage of irrigation for wheat?

Refraction and Dispersion of light

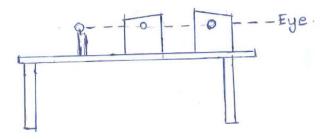
- 1. Give one word answers
 - a) The image formed through an apparent intersection of the reflected rays.
 - b) The central point of the spherical mirror.
 - c) A spherical mirror whose reflecting surface is curved inward.
- 2. Match the column

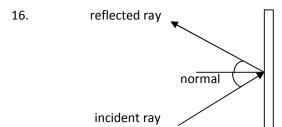
a) bouncing back of light	Concave mirror
b) reflection through well shiny surface	Virtual image
c) image formed by a plane mirror	Convex mirror
d) Mirror used in ophthalmoscope	Reflection
e) Security mirror	Regular reflection

3.	Fill	in	the	b	lanl	ks:

a) Radius of curvature is	of the focal length of lens.	
b) A ray directed towards the centre of curvature		
c) The normal is always	_ to the surface of mirror.	
d) image can't obtained on	the screen.	
e) Dentists use mirror to go	et magnified image of the tee	eth.

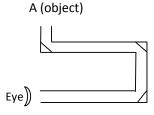
- 4. What type of lens do we use for reading?
- 5. What happens to light when it falls on shiny or polished surface?
- 6. Why does ray of light bend when it goes from one medium to another?
- 7. What is the relation between refractive index and optical density?
- 8. Why does a pond appear shallower than it is?
- 9. In which condition does the ray of light bends towards the normal?
- 10. Why are astronomers going well above the earth's atmosphere not able to see twinkling of stars?
- 11. What happens when sunlight falls on drops of water suspended in the air?
- 12. Name the lens which converges the light rays.
- 13. What is nature and position of image when you focus an object at infinity using
 - a) convex lens
- b) concave lens
- 14. Define the principal axis of a lens.
- 15. Rahul takes two cardboard and make hole on equidistance from the base. He observes a lighted candle through it. What will you interpret from the activity?





Observe the diagram and answer the following questions

- a) If angle of incidence is 35°. Find the angle of reflection.
- b) If angle between the surface of mirror and reflected ray is 45°. Find the angle of incidence.
- 17. Which types of lens are thin in the middle and thick at the edges?
- 18. What causes the formation of Mirage in desert?
- 19. Define relative refractive index.
- 20. How is reflection different from refraction?
- 21. How many times a ray of light gets reflected by 2 plane mirrors placed parallel and facing each other?
- 22. The angle between incident and reflected ray is 60°. What is value of angle of incidence?
- 23. Geeta planned an activity to observe an object A through pipes as shown in the figure given below, so that she could see objects which she could not see directly.



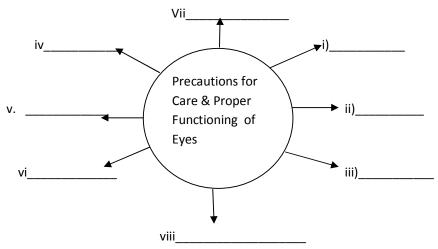
- a) How many mirrors should she use to see the objects?
- b) Indicate the positions of the mirrors in the figure.
- c) What must be angle with respect to the incident light at which he should place the mirrors ?
- d)Indicate the direction of rays in the figure .
- e)If any of the mirrors is removed , will she be able to see the object?
- 24. Name one natural phenomenon associated with dispersion of sunlight .
- 25. Give reason :-
- a) Convex lens is called converging lens.
- b) Concave lens is called diverging lens.
- 26. What should be the position of object in convex lens to get virtual ,erect and magnified image ?
- 27. How is the rain bow formed?

The Human Eye

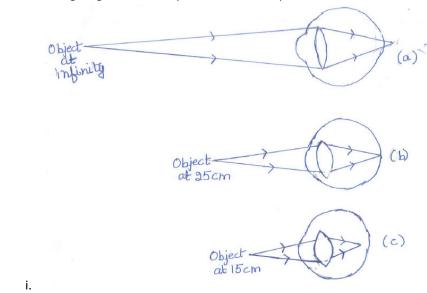
1.	A) As shutter is to camera;	_ is to eyes.	
	B) As film is to camera; is	to eyes.	
2.	Give one word answer for the following	lowing:	
	i) A transparent curved protect	ive layer of eye:	
	ii) Liquid that fills space behind	cornea:	
	iii) A pigmented coloured muscu	lar diaphragm responsik	ole for characteristic colour of eye
	of a person:		
	iv) A self adjusting aperture pres	ent in the centre of iris:	·
	v) Muscles that help in changing	g the curvature and foca	l length of eye lens:
	vi) Light sensitive cells:		
	vii) Cells responsible for the visio	n in dim light:	
	viii) Cells responsible for colour vi		
	ix) Tissue in human eye that doe		sels:
	x) Screen of the eye:		
3.	Why no image is formed at the bl	ind spot?	
4.	Name the feature of eye that help	•	t as moving .
5.	What is the far point of a normal	•	-
6.	Why in old age, the eye lens of so		zv or opaque ?
7.	· · · · · · · · · · · · · · · · · · ·	• •	, s that his finger appear blurred if he
	brings his hands very close to his	•	=
	normal eyesight	, ,	
8.	Eyes of nocturnal bird have large	cornea and large pupil.	State one advantage and
	disadvantage of this feature.	0 1 1	Ü
9.	In case of some people the light of	coming from distant obje	ect gets converged in front of the
-	retina of the eye ,while light com		
	a) Name the defect in the eye .		
	b) what could be the reason for the	his defect ?	
	c) how could this defect be rectifi		
10	List the causes of visual problems		
	•		vision loss. Suggest some ways to
	minimise vision due to these dise		vision loss. Suggest some ways to
12			ed by visually impaired in order to
12.	read and write.	ices of the tactaar ara as	ed by visually impaired in order to
12	Complete the following attribute	matrix hased on differen	nce hetween Myonia and
13.	hypermetropia	matrix based on amere	nee between wyopia and
	пурстисторіа		
	Defects	Myopia	Hypermetropia
	Features	, ορία	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Curvature of Cornea		
	Size of eyeball		

Focal length of lens
Corrective lens used

14. Complete the web – chart



15. Observe the following diagrams carefully and answer the question.



- i) The special characteristic of human eye that is represented in this diagram is ______.
- ii) Why the shape of eye lens changes?
- iii) In case "c" is the image formed clear. Why?
- iv) Depict the range of vision of a normal eye from these diagrams.

Sound

1.	Fill in the blanks		
	i) The formula that gives relationship between	en time period and frequency	is
	ii) The two types of mechanical waves are	and	
	iii) The basic cause of sound iswh	ich can be defined as	_·
	iv)The maximum displacement of a body fro	m its mean position is called	
	v)Sound travels fastest in med	ium .	
	vi)Sound cannot propagate through		
	vii)In flute and Harmonium , is t	he vibrating part that produc	es sound .
	viii)The organs or mechanisms responsible for	or producing characteristic sc	und in human
	being is, birds is, insect is a	and frogs is	
	ix)Unpleasant sounds/noise are produced by	vibrations .	
	x)People with hearing impairment can comm	nunicate effectively by	_·
2.	Match the following		
	Column A	Column B	
	i) The reciprocal of frequency	a) wavelength	
	ii)The distance travelled by wave per sec	b)frequency	
	iii) The no. of complete vibrations/sec	c)velocity	
	iv)The distance between two	d)amplitude	
	consecutive crest		
	v) When we change feeble sound to	e)time period	
	loud sound, we increase its		
3.	Give one word answer for the following:		
	i) Sound of frequency below 20Hz:		
	ii) Device used by doctors based on multipl	e reflection of sound:	_
	iii) The unit of loudness of sound :	_	
	iv) The faintest sound which a human ear c	an detect is known as :	
	v) The voice at high pitch is		
4.	Correct the sequence		
	(i) Correct the given sequence in the increasi	ng order of speed of sound.	
	Air >iron nail >water		
	(ii) Particle of the medium vibrate, vibrating	object, sound energy process	sed by brain, ear
	drum vibrates (journey of sound from sound	producing object to hearing	of sound)

- 5. Two astronauts are floating close to each other in space. Can they talk to each other in space. Can they talk to each other without using any special device? Give reasons.
- Lightning can be seen the moment it occurs. Geeta observes lightning in her area. She hears
 the sound 5 sec after she observed the lightning. How far is she from place where lightning
 occurs? (speed –330m/sec)
- 7. Rahul saw a cracker burst at night at a distance from his house. He heard the sound of cracker a little latter after seeing the cracker burst. Give the reason for delay in hearing of the sound.
- 8. A simple pendulum makes 10 oscillations in 20 seconds. What is the time period and frequency of oscillations?
- 9. Suppose a stick is struck against a frying pan in vacuum.
 - a) Will the fry pan vibrate?
 - b) Will we be able to hear the sound and give reason for the answer?
- 10. In a stringed musical instrument, the player plucked the string in the middle first with force of greater magnitude and then force of smaller magnitude. In which case would the instrument produce a louder sound?
- 11. An alarm bell is kept in a bottle. A person close to it can distinctly hear the sound of alarm.

 Now if the air is removed from the bottle completely. How will the loudness of alarm get affected for the same person?
- 12. The town hall building is situated close to Rohan's house. There is a clock on the top of town hall building which rings bell every hour. Rohan has noticed that the sound of clock appears to be much clearer at night. Explain.
- 13. Mention the technique used by frogs to make their croaking sound louder.
- 14. Bees on their way to collect honey have higher pitch as compared to the bees returning back to their hives why?
- 15. There are many explosions taking place in the outer space but we do not hear them. why?
- 16. Enlist the factors that effect speed of sound through a medium.
- 17. Some animals get disturbed before an earthquake. Support the statement with proper reasons.
- 18. What do you understand by the "timbre"?
- 19. Enlist the major drawbacks of on health of people living in villages/towns located along a national highway or close to railway tracks or industries.
- 20. How does a hearing aid help people with partial hearing loss?

Synthetic Fibres and Plastic

- 1. Cotton is a natural polymer. What is its chemical name?
- 2. A synthetic fibre which looks like silk is obtained by chemical treatment of wood pulp. What is its common name? Which natural fibre does it imitate?
- 3. Give reasons:
 - a) Plastic articles are available in all possible shape shapes and sizes.
 - b) It is not advisable to burn synthetic fibres and plastics.
 - c) A plastic bucket does not get rusted like an iron bucket.
 - d) It is advised to avoid the use of plastic as far as possible.
 - e) Bakelite is used for making electrical fittings.
 - f) It is uncomfortable to wear synthetic fibres clothes in summer.
 - g) Rayon is suitable for wear in summers while acrylon is not.
 - h) Terylene is used for making raincoats.
 - i) Melamine is coated in the uniform of firemen
 - j) Nylon is used for making parachutes.
- 4. Rohit took with him some nylon ropes, when he was going for rock climbing. Can you tell why he selected nylon rope instead of rope made of cotton or jute?
- 5. A lady went to the market to buy a blanket. The shop keeper showed her blankets made of acrylic fibres as well as made of wool. She preferred to buy an acrylic blanket. Can you guess why?
- 6. PVC (Polyvinyl chloride) is a thermoplastic and is used for making slipper and toys etc. Bakelite is a thermosetting plastic and is used for making electrical switches, handles of various utensils etc. Compare the characteristics of polyvinyl chloride and Bakelite.
- 7. State the importance of synthetic polymers in our life.
- 8. Even though plastic is very useful, it is advised to restrict its use. Why is it so? Can you suggest some methods to limit its consumption.
- 9. Fill in the blanks

a)	A polymer is a chain of many small units joined together which are called
b)	The synthetic fibres are also known as fibres
c)	A synthetic fibre which appears to resemble wool is
d)	The first fully synthetic fibres was
e)	Plastics with linear arrangement of molecules are known as
f)	The process of formation of a polymer is called

g)	Rayon:: :: wonder polymer.
h)	Full form of PET is
i)	is used for making kitchenware and fabrics which resist fire.

- 10. State whether the given statements are true or false
 - a) The fabric tery wool is obtained by mixing terylene and wool.
 - b) Synthetic fibres do not melt on heating.
 - c) It is risky to wear synthetic clothes while working in the kitchen.
 - d) Most of the plastics are biodegradable.
 - e) Synthetic fibres have higher tensile strength than natural fibres.

11. Match the items in column A with Column B

Column A	Column B
a) Vulcanised rubber	i)artificial silk
b) nylon	ii)sails of boat
c) PET	iii)non-stick coating
d) Terylene	iv)semi synthetic polymer
e) Rayon	v)wonder polymer
f) Teflon	vi) packaging containers
g) Acrylon	vii)thermosetting plastic
h) PVC	viii) terylene and cotton
i) Bakelite	ix)thermoplastic
j) Terycot	x)resembles wool

Reproduction in Animals

- 1. Why reproduction is considered the most important characteristic of life?
- 2. Why is that offspring produced as a result of asexual reproduction are genetically similar to the parent?
- 3. Stages of silkworm are given below. Write them in sequential order. Pupa, Egg, Silk moth, Caterpillar
- 4. How is hen's egg able to survive in the harsh external environment?
- 5. The term metamorphosis is not used while describing human development . Why?
- 6. How is reproduction in Hydra different from that in Amoeba?
- 7. Why do male gametes have a tail?
- 8. Differentiate direct and indirect development in animals.
- 9. What is calcite? State its composition and function.
- 10. Why do we say that the earthworm is a hermaphrodite animal?
- 11. Even though fusion of gametes takes place during sexual reproduction in both frog and human beings they have different reproductive patterns, Explain.
- 12. Enlist the features that differentiate tadpole from adult frog.
- 13. Define parthenogenesis.
- 14. What do you understand by bi-parental reproduction?
- 15. Explain the two ways by which the embryo inside the eggs of oviparous can undergo complete development.
- 16. At a given time during reproduction how many sperm can fuse with one ova?
- 17. Why the child possess mixed characteristics of both the parents?
- 18. Differentiate between:
 - a) zygote and embryo b) foetus and infant
- 19. How is multiple fission different from binary fission?
- 20. If the oviduct of a female is cut are sutured, how will the sexual reproduction be effected in human beings?
- 21. Fill in the blanks:

i)	n mode of reproduction the off springs are genetically identically	al to
	parents.	
ii)	An individual producing both types of gametes are called organism.	
iii)	is the first cell of the new generation .	

22. Match the following

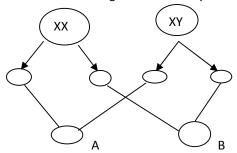
	Column A		Column B
i.	metamorphosis	a)	Cattle
ii.	Viviparous	b)	Indirect development
iii.	Hermaphrodite	c)	Fish
iv.	Oviparous	d)	Snail

iv) The respiratory organs of tadpole is _____ and that of frog is _____.

23.	Giv	e one word for the following
	i)	The part of female reproductive system where zygote is implanted:
	ii)	Mode of reproduction which confers new character to off spring:
	iii)	The part where division of zygote begins in females:
	iv)	The period during which development takes place inside the egg:
24.	In t	he male reproductive system :
	i)	are oval organs present in a sac called
	ii)	develop in testis.
	iii)	The fluid having sperms in it is
	iv)	Sperms pass from the testes through the to the urthera which is surrounded
		by muscular structure called the
25.	In t	he female reproductive system :
	i)	produce eggs.
	ii) An egg reaches the, where a sperm fuses with it to form
	ii	i) The main functions of hormone produced by ovaries are a) b)

Reaching the Age of Adolescence

- 1. Give reasons for the following
 - i) Change in the voice of boys at puberty.
 - ii) Acne or pimples common among the adolescents
 - iii) There is change in the size of heart and lungs at puberty.
 - iv) Gonads get matured and start producing gametes during puberty.
 - v) Father is responsible for determining the sex of the child.
- 2. Name the gland that triggers the shift of adolescence towards adulthood. State its influence on male and female gonads.
- 3. The following are some processes that take place in the body of female. Arrange them in correct sequence.
 - i) production of ova
 - ii) ovary enlarges
 - iii) onset of puberty
 - iv) Fertilised egg reaches uterus.
 - v) Uterus prepares itself by forming thick lining of blood.
 - vi) Mature ovum enters the oviduct.
 - vii) Zygote begins to divide and get embedded in the uterus for further development.
 - viii) Fertilisation of ovum with sperm takes place in oviduct.
- 4. Geeta always eats only rice and pulses in every meal. She often falls ill and has become prone to diseases. Can you suggest changes in her diet which can make her healthy and free of diseases?
- 5. Fill in the blank circles in the figure and identify the sex of child A and B is



6. Given below are certain food items required for proper nourishment of adolescents .Name the nutrients present in the food items and write their function

Food items	Major nutrients	Function
Pulses & Nuts		
Oranges& Amla		
Sugar & roti		
Oils		
Vegetables & fruits		

7.	Nai	me the hormone which will be released during the following situation.
	i)	Frightened person
	ii)	Growth of child to adult
	iii)	Formation of moth from caterpillar

iv) Metamorphosis of tadpole to frog ______.

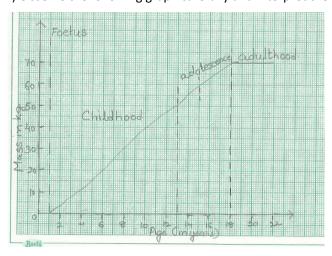
- 8. In human female, each time during maturation and release of eggs, the inner wall of uterus thickens. Is the thickening permanent? Give reason.
- 9. It is believed that height of a child depends upon the genes inherited from parents. However it is often seen that tall parents may have short children and vice-versa .Are there factors other than genes that could cause such variation.
- 10. Justify the following statements with adequate examples wherever necessary
 - i) Poor nutrition in adolescence can have adverse health consequences in adulthood.
 - ii) Both girls and boys need to be aware of importance of maintaining personal hygiene
 - iii) Physical exercise is a daily requirement.
 - iv) Some habits affect the health of adolescents and make them lose their self confidence and control over themselves.
- 11. Complete the following table

Gland	Hormone	Function
1. Pituitary		
2. Thyroid		
3. Adrenal		
4. Pancreas		

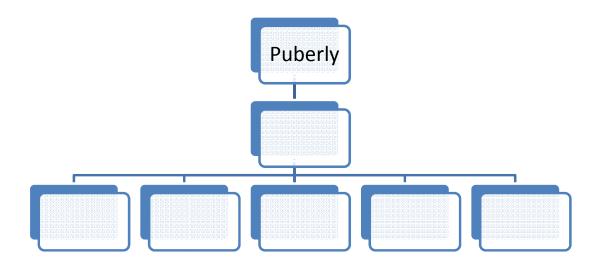
12. Do as directed

i)The life cycle of human beings consists of three stages ______, and ______.

ii) Observe the following graph carefully and interpret the age span of adolescence.



iii)Complete the flow chart



Chemical effect of Electric Current

1.	Give 2 examples of insulator or poor conductor.		
2.	Why we should never handle electrical appliances with wet hands?		
3.	Why does salt when added to water makes water more conducive to electricity?		
4.	What does a voltaic cell do?		
5.	Name 2 metals which are extracted from their ores by electrolysis.		
6.	The phenomena which forms the underlying principle of modern day generators and		
	transformers is		
7.	What do you understand by electro- magnetic induction?		
8.	In case of electro- magnetic induction what causes the flow of current through the coil?		
9.	Why is layer of zinc coated over iron?		
10.	. Will the solution of sugar in distilled water conduct electricity?		
11.	1. Name the effect of current responsible for glowing of bulb in an electric circuit with a		
	battery.		
12.	2. Geeta wants to deposit silver on an iron spoon. She took silver nitrate solution in beaker a		
	set up a simple circuit for electroplating. Which terminal of the battery should the spoon be		
	connected to? What material should the other electrode be made of?		
13.	. Why is tin electroplated on iron to make cans used for storing foods?		
14.	. An electric current is passed through conducting solution. List any 3 observation.		
15.	. You are provided with a magnetic compass, an empty match box, a battery of two cells and		
	connecting wires. Using these how will you make a tester for testing an electric circuit.		
16.	Fill in the blanks		
	i) The object to be electroplated is taken as electrode.		
	ii) One of the most common applications of chemical effect of electric current is		
	iii) Small amount of a mineral salt present naturally in water makes it a of		
	electricity.		
	iv) Electroplating of is done on objects like water taps and cycle bells to give		
	them a shiny appearance.		
17.	Choose the odd one out and justify the correct choice		
	a) Metals, alloy, plastic, rainwater		
b)Distilled water, metal, wood, rubber			

18. The chemical reactions taking place in solution depend on two factors. Write them.

19.	Choose an appropriate word from the box to fill in the blanks given below :	
	Electroplate, ions , cathode , anode , electrolyte , nickel , electrolytic	
	To an article with nickel , requires an which must be a solution containing	
	The article , to be plated , is taken as theof the in which plating	
	is carried out . The of the cell is made from pure	
20. In case of a fire , before the firemen use the water hose to throw water to douse fire , they		
	shut off the electric supply of the area . Explain why this is done .	
21.	21. A student staying in coastal area tests the drinking water and also sea water with a circuit in	
	which a part of the connecting wire is wound around a matchbox containing compass. He	
	finds that compass needle deflects more in the case of sea water. Explain the reason for this	
	observation.	

Stars and Solar System

- 1. Do stars emit light only during night?
- 2. Two people observed a bright object in the night which is not twinkling. One person says it is star and the other one says it is planet. Who is correct?
- 3. John saw full moon on a particular day. After how many days will he be able to see the full moon again?
- 4. India's maiden mission to a planet X launched on 5 November 2013 by ISRO, was a significant step in furthering the country's space ambition.
 - i) Name this planet
 - ii) Write two features of this planet.
 - iii) Which 2 conditions make it unlikely for water to exist in liquid state on this planet?
 - iv) Name its two natural satellite.
- 5. Meteors are not visible during day time. Explain the reasons.
- 6. For the people in ancient times, the pole star was a guide to directions . Why?
- 7. Radha saw the moon through the glass window at 8.00 p.m. She marked the position on the glass pane. She got up at 4 am in the morning. Will the moon be visible at same position?
- 8. Suppose the moon emits light of its own. Would it still have phases? Justify your answer.
- 9. Explain why we always see the same side of the moon.
- 10. Suppose the distance between earth and sun becomes half of its present distance. What is likely to happen to life?
- 11. Sun is a star. Why?
- 12. What is Periodic Comet? Give example.
- 13. What helps to keep the earth's temperature to remain suitable to support life?
- 14. What do you understand by the terms waxes and wanes?
- 15. Name the star after Sun which is nearest to earth.
- 16. The bright lines of light flashing across the sky for a very short duration are known as _____.
- 17. Planets do not collide while revolving around the sun. Why?
- 18. What determines the colour of a star?
- 19. Earlier it was the solar system has 9 planets but now it is said that solar system has got only 8 planets, Justify.
- 20. Even though Venus is relatively farther away from the sun, it is even hotter than mercury . Why?

Earthquakes

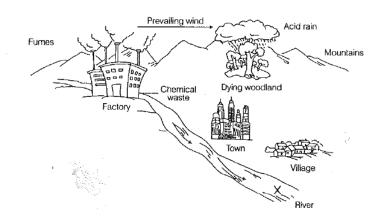
- 1. Can tremors occur when volcano erupts?
- 2. What is a tsunami?
- 3. Why does the tectonic or lithospheric plate of earth move?
- 4. An earthquake of magnitude 5.1 struck India at depth of 16.1 km, near Rudraprayag district in the state of Uttarakand on February 6, 2017. State three consequences of an earthquake that are faced by people of the affected area.
- 5. How does the intensity of earthquake vary as we move away from the epicentre?
- 6. If a person is in a moving car at the time of an earthquake. What safety precaution should he take during the earthquake?
- 7. What kind of an earthquake occurs when magnitude of earthquake on Richter scale is 8 or above and how does it effect the place where it occurs?
- 8. Can man predict an earthquake before hand?
- 9. Ram was sitting on a table and chair suddenly he felt his chair was rocking and the pen lying in front was moving away from him. Can you say what natural phenomenon is occurring? What precautions must be taken by him?
- 10. What disaster management supplies should be readily available with people living in earthquake prone areas?
- 11. An increase of two on Richter scale means _____ times more destructive energy.
- 12. Why are high rise building in earthquake prone area, suppose to have their fire fighting system in order?

Pollution of Air

- 1. What is air pollution?
- 2. How the carbon monoxide formed during incomplete combustion of fuel affects man and plants?
- 3. What are ill effects of high concentration of nitrogen dioxide in air on living beings?
- 4. Why are people advised not to use the foaming agents containing CFC?
- 5. What is marble cancer? How is it caused?
- 6. The number of vehicles are increasing rapidly. How is it causing air pollution?
- 7. How does the global warming effect the environment of the world?
- 8. Gangotri glacier in the Himalayas started melting. Why?
- 9. Give reason for the following
 a)we should avoid burning of crackers.b)use alternative source of energy instead of conventional source of energy like coal and petrol
- 10. Why is lot of stress being given on planting trees?
- 11. "Say no to crackers "- campaign was organised by school children of DAV Public School. List two factors which can be checked by this
- 12. A lot of dry leaves are collected in the school garden and burnt everyday. Do you think it is right to do so? If not what should be done with dry leaves?
- 13. Combustion of fossil fuel generates lot of air pollution. Can you suggest any two alternative source of energy which do not cause any pollution.
- 14. How can regular monitoring of air quality at various locations by government and various agencies help us?

Pollution of Water

- 1. State any 2 changes in the physical properties of water which help you identify that water is polluted.
- 2. How does the agricultural waste effects the quality of water?
- 3. An oil tanker transporting oil across an ocean meets with an accident in the middle of ocean. What will happen and how will it affect the environment?
- 4. If you are given a bottle of water which has odour and water is milky in its appearance. Should you consume that water or not, if not, Why?
- 5. Why do we boil water to purify?
- 6. Fertilisers are good for crop but cause pollution of water. How?
- 7. How does filteration help in purification of water?
- 8. How can sewage waste be treated and water can be made suitable for use?
- 9. Why are people advised not to use shower instead use bucket and mug while taking a bath?
- 10. During rainy season it was found that many of the patients in a hospital were suffering mainly from jaundice and diarrhoea. Why?
- 11. Why are industrialist advised not to dump the industry waste into river or lakes?
- 12. Which property of water is the major cause of its pollution?
- 13. Why do we need to conserve water?
- 14. Why is that we often carry water bottles along with us when we go out?
- 15. Study the picture given below:



- i) A group of environmentalist s found that much of the woodland area is drying .What could be the reason of this observation?
- ii) Some fisherman catching fish with their fishing nets at point X. Environmentalists advised them not to eat the fish . Give a reason for their advice to fisherman.