

PART-A

• CHOOSE THE CORRECT ALTERNATIVES IN EACH OF THE FOLLOWING

[40]

- 1)The only movable bone in the skull is \_\_\_\_  
 (a)the upper jaw                      **(b)the lower jaw**                      (c)face bone                      (d)femur
- 2)The total number of vertebrae in the backbone is \_\_\_\_  
 (a)22                      (b)32                      **(c)33**                      (d)43
- 3)Muscles are attached to the bones by means of \_\_\_\_  
**(a)tendons**                      (b)ligaments                      (c)biceps                      (d)triceps
- 4)The number of skeletal muscles in human body is \_\_\_\_  
**(a)639**                      (b)656                      (c)650                      (d)800
- 5)which of the following has a liquid skeleton?  
 (a)fish                      (b)snake                      (c)bird                      **(d)earthworm**
- 6)Which of the following body parts rotates completely?  
 (a)neck                      (b)head                      **(c)arm**                      (d)elbow
- 7)The habitat of snow leopard is \_\_\_\_  
 (a)forest                      (b)desert                      **(c)mountain**                      (d)sea water
- 8)Which of the following is the habitat of lotus flower?  
 (a)desert                      **(b)pond**                      (c)mountain                      (d)polar region
- 9)The basis of all our vehicles is \_\_\_\_  
 (a)engine                      (b)fuel                      **(c)wheel**                      (d)electricity
- 10)Kelvin is the SI unit of \_\_\_\_  
**(a)length**                      (b)time                      (c)mass                      **(d)temperature**
- 11)The motion of the drawer of a table is \_\_\_\_  
 (a)periodic                      (b)rotator                      (c)circular                      **(d)rectilinear**
- 12)1 KM = \_\_\_\_m  
 (a)100                      **(b)1000**                      (c)10                      (d)50
- 13)We can accurately measure the length of a table with \_\_\_\_  
 (a)handspan                      (b)cubit                      **(c)measuring tape**                      (d)pace
- 14)Which of the following is a translucent object  
 (a)air                      **(b)tissue paper**                      (c)brick                      (d)stone
- 15)A dark space formed behind an opaque object is called \_\_\_\_  
**(a)shadow**                      (b)image                      (c)screen                      (d)surface
- 16)When green light falls on a blue object the colour of the shadow is \_\_\_\_  
 (a)green                      (b)blue                      (c)white                      **(d)dark(black)**
- 17)What do we call an object through which we can see clearly?  
 (a)opaque                      **(b)transparent**                      (c)translucent                      (d)none
- 18)We are able to see image in a mirror due to \_\_\_\_  
**(a)reflection**                      (b)shadow                      (c)refraction                      (d)dispersion
- 19)Electric cell is not used in \_\_\_\_  
 (a)radios                      **(b)refrigerator**                      (c)toys                      (d)watches
- 20)Which is not the source of electricity?  
 (a)generator                      (b)power station                      (c)battery                      **(d)fan**
- 21)Electric current flows only when the circuit is \_\_\_\_  
 (a)open                      **(b)closed**                      (c)incomplete                      (d)broken
- 22)Which of the following is not an insulator?  
 (a)rubber                      (b)wood                      **(c)copper**                      (d)plastic
- 23)The flow of electricity is known as electric \_\_\_\_  
 (a)energy                      (b)power                      (c)generator                      **(d)current**
- 24)Which of the following is most appropriate to make a good temporary magnet ?  
 (a)cotton                      (b)glass                      (c)wood                      **(d)iron**
- 25)The name of "leading stone" to the magnet was given by the \_\_\_\_  
 (a)Portuguese                      **(b)chinese**                      (c)Japanese                      (d)Italian
- 26)Which instrument is used to find direction  
 (a)magnetic keeper                      (b)magnetic nail                      **(c)magnetic compass**                      (d)all of these
- 27)A magnet loses its magnetic property by \_\_\_\_  
 (a)using                      (b)storing                      **(c)hammering**                      (d)cleaning
- 28)A freely-suspended magnet points in the \_\_\_\_  
**(a)north-south**                      (b)east-west                      (c)only north                      (d)only south
- 29)From where can we get fresh water?  
 (a)rainwater                      (b)river                      (c)lake                      **(d)all of these**
- 30)The level of groundwater is called \_\_\_\_  
**(a)water table**                      (b)water cycle                      (c)hydrological cycle                      (d)tube well
- 31)Which is the solid state of water?  
**(a)ice**                      (b)steam                      (c)water vapour                      (d)water droplets

- 32) Which of the following affects the rate of evaporation?  
 (a) temperature (b) wind (c) humidity **(d) all of these**
- 33) What causes floods?  
**(a) heavy rain** (b) no rain (c) heavy wind (d) fire
- 34) Evaporation of water in shaded is \_\_\_\_\_  
 (a) fast (b) faster (c) slow **(d) slower**
- 35) The gas present in the maximum amount in the air is \_\_\_\_\_  
**(a) nitrogen** (b) carbon dioxide (c) argon (d) oxygen
- 36) The ratio of nitrogen to oxygen in the air is approximately \_\_\_\_  
 (a) 1:4 **(b) 4:1** (c) 1:3 (d) 3:1
- 37) For burning of fuel which of the following gases is necessary?  
**(a) oxygen** (b) nitrogen (c) carbon dioxide (d) hydrogen
- 38) Which of the following is a biodegradable waste ?  
 (a) plastics (b) metal **(c) paper** (d) glass
- 39) Old news paper can be converted into new paper, this is called \_\_\_\_\_  
 (a) reusing **(b) recycling** (c) reducing (d) 3R's
- 40) 1 m = \_\_\_\_\_ cm  
 (a) 10 **(b) 100** (c) 1000 (d) 10,000

#### PART -B

##### Q-1(A) Write Definition [04]

**1) Rectilinear Motion:** When an object moves along a straight line its motion is called rectilinear motion.

**(2) Insulator:** The materials that do not allow electric current to pass through them are called insulator.

**(3) Respiration:** the process of breakdown of food into carbon dioxide and water to release energy is called respiration.

**(4) Electric Switch:** An electric switch is a simple device that is used to open or close an electric circuit.

##### Q-1(B) Fill in the blanks [06]

1) Conversion of garbage into manure is called **Composting**

2) The standard unit of length is **meter**

3) The annual rainfall of deserts is less than **25cm**

4) The spinal cord is a part of the **nervous** system.

5) **Plastics** degrade very slowly.

6) A Piece of glass is **transparent**

##### Q-2(A) Answer the following questions. [05]

1) Name four types of movable joints in the human body.

**Ans: (1) Ball & socket joint (2) Hinge joint (3) Pivot joint (4) Gliding joint**

2) The distance between two bus stops is 3540Km. Express this distance in **(a) 3540000m (b) 3,54,000cm**

3) In which direction does the electric current flow?

**Ans: The electric current flows from the positive terminal to the negative terminal of the cell.**

4) Name a machine that contain strong magnets. **Generators**

5) Upto what height does the atmosphere extend above the earth's surface? **300Km**

##### Q-2(B) Answer the following questions. [05]

1) Mention at least two benefits of waste management.

**Ans: (i) It produces air, water and land pollution. (ii) It provides healthy and clean environment.**

2) Snails move with the help of wings.

Above statement whether is true or false. Rewrite the false statements correctly.

**Ans: FALSE: Snails move with the help of their foot muscles.**

3) What is meant by rectilinear propagation of light?

**Ans: The Property of light by which it travels in straight lines is called rectilinear propagation of light.**

4) Name the process of collecting rainwater from roofs & streets and storing it for further use.

**Ans: ROOFTOP RAINWATER HARVESTING**

5) Why is nitrogen needed by living organisms?

**Ans: Nitrogen is needed by living organisms because it forms different body components of living beings, like proteins and nucleic acid**

##### Q-3 Answer the following questions. [14]

1) What is camouflage ?

**Ans: Some animals protect themselves from their enemies by changing their skin colour according to surroundings therefore they get unnoticed by their enemies. This is called Camouflage.**

2) State any two properties of Air.

**Ans: (i) Air occupies space. (ii) Air has no colour and smell.**

3) Differentiate between natural and artificial magnets.

**Ans: Natural magnets are found in nature, Magnetite or lodestone is a natural magnet. Natural magnets have generally low magnetic power and such magnets are not found at all places.**

**Artificial magnets are prepared by humans which can be used at any time and at any place. These magnets are much stronger than natural magnets. Artificial magnets may be rod-shaped, U-shaped or horseshoe shaped.**

4) Why is separation of biodegradable and non-biodegradable wastes necessary.

**Ans: Separation or segregation of biodegradable and non-biodegradable wastes is necessary because biodegradable wastes decomposed through composting and vermicomposting, while non-biodegradable wastes are disposed by other methods like incineration and recycling.**

5) Moon is the non-luminous object. But still we see the moonlight. How is it possible?

**Ans: We get moon light because moon non-luminous object reflects light received from luminous object sun into our eyes.**

6) Prove that repulsion is the sure test for magnetism.

**Ans: Take a magnet and suspend it with the help of thread. Now bring one end of a metallic bar near one pole of the suspended magnet at a time. If one end of metallic bar is attracted and the other end is repelled the metallic bar is a magnet. If both the ends of metallic bar are attracted it is not a magnet. It proves that repulsion is a sure test for magnetism.**

7) What is ground water?

**Ans: The reservoir of water collected over the hard, non-porous rocks below the surface of the earth is called ground water.**

Q-4 Answer the following question in detail (Any 02)

[06]

1) What are the basic approaches to the waste management? Explain it.

**Ans: The basic approaches towards the waste management involves production of minimum wastes by practicing three R' and proper disposal of wastes. The 3 R's are reduce, reuse and recycle.**

**REDUCE: We can reduce the amount of wastes by throwing less, eg. carry your own cloth bag when you go for shopping to avoid the use of polythene bags.**

**REUSE: Reuse is to use an item more than once. It is another method of reducing waste production, eg. old furniture and old clothes should be donated to the poor people so that they can be reused.**

**RECYCLE: Recycling is the making of useful things from waste materials. Materials like grass, plastics, metals and paper are recycled. The biodegradable and non-biodegradable wastes are disposed properly. They should be first segregated and then disposed through various methods.**

2) Briefly describe how desert plants are able to survive in a hot dry climate.

**Ans: Adaptations in plants: (a) The leaves in desert plants are either absent, very small or present in the form of spines. This helps in reducing the loss of water from the leaves.**

**(b) The stems of desert plants are thick and fleshy due to storage of water. The stems also have a thick waxy coating that prevents the loss of water from it.**

**(c) The roots of desert plants are long and go very deep into the soil to absorb water.**

3) (a) Do all organisms breathe through lungs?

**Ans: No, all organisms breathe through lungs. Most of the terrestrial organisms breathe through lungs**

(b) From where do aquatic animals get oxygen?

**Ans: The aquatic animals take oxygen dissolved in water for breathing.**

(c) What is the role of atmosphere?

**Ans: Atmosphere helps in maintain proper temperature on the earth. When the sun rays fall on the earth some of them get absorbed by the atmosphere and rest are reflected back. This trapped heat in preventing too much cooling of earth's atmosphere at night.**

**B&L**