



K.P.C PUBLIC SCHOOL, KHARGHAR  
ASSESSMENT IV - 2023-24

GRADE: VI  
SUBJECT: SCIENCE

MARKS :100  
TIME: 3 HRS

**General Instructions:** This question paper comprises five sections A , B , C , D and E.  
All questions are compulsory.

**SECTION – A**

*This section carries 1 mark each and comprises of :*

A] Tick the correct answer

B] Fill in the blanks

C] True or false

D] Match the following

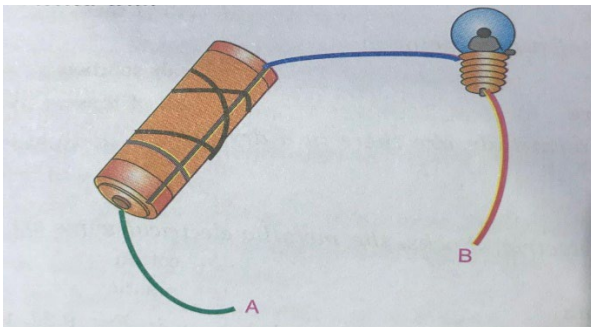
**A] Tick (✓) the correct answer:**

**(1 x 12=12)**

1. A bulb has

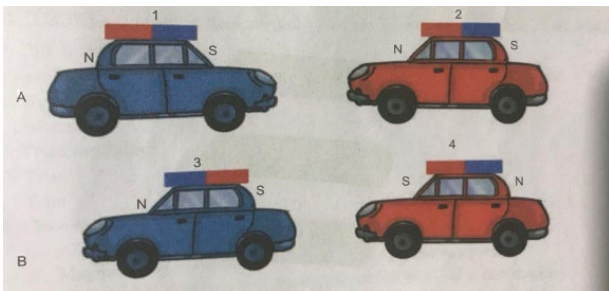
- a) two terminal and one filament
- b) two terminal and two filament
- c) multiple terminal and single filament
- d) single terminal and single filament

2. In the following arrangement shown in figure ,the bulb will not glow if the ends A and B are connected with



- a) A steel spoon
- b) A metal clip
- c) A plastic clip
- d) A copper wire

3. Observe the picture A and B in figure carefully.



Which of the following statement is correct for the above given picture?

- a) In A, cars 1 and 2 will come closer and in B, cars 3 and 4 will come closer.
- b) In A, cars 1 and 2 will move away from each other and in B, cars 3 and 4 will move away.
- c) In A, cars 1 and 2 will move away and in B, 3 and 4 will come closer to each other.
- d) In A, cars 1 and 2 will come closer to each other and in B, 3 and 4 will move away from each other.

4. Which of the following is not an example of response to stimulus?

- a) watering in mouth when we see delicious food item.
- b) closing of leaves of mimosa plant when touched.
- c) shutting our eyes when an object is suddenly thrown in our direction.
- d) A chick hatching out of an egg.

5. Which of the following is characteristics of living being ?

- i) Respiration
- ii) Reproduction
- iii) Adaptation
- iv) Excretion

Choose the correct answer from the option below

- a) (i), (ii) and (iv) only
- b) (i) and (ii)only
- c) (ii) and (iv) only
- d) (i), (ii), (iii) and (iv)

6. Bhoojo took an empty plastic bottle, turned it upside down and dipped its open mouth into a bucket with water. He then tilted the bottle slightly and made the following observations.

- i) Bubbles of air came out from the bottle
- ii) Some water entered the bottle.
- iii) Nitrogen gas came out in the form of bubbles and oxygen got dissolved in water.
- iv) No bubbles formed , only water entered the bottle.

Which observation is correct

- a) (i) and (ii)
- b) (iv) only
- c) (iii) and (iv)
- d) (i) only

7. The forward and backward movement of our head is possible because of presence of

- a) ball and socket joint where neck joins the head
- b) pivotal joint where our neck joins the head
- c) hinge joint where our neck joins the head
- d) None of these

8. Mountaineers carry oxygen cylinders with them because

- a) there is no oxygen in high mountains.
- b) there is deficiency of oxygen on mountains at high altitude.
- c) oxygen is used for cooking.
- d) oxygen keeps them warm at low temperature.

9. Assertion (A)- Human body is bad conductor of electricity.

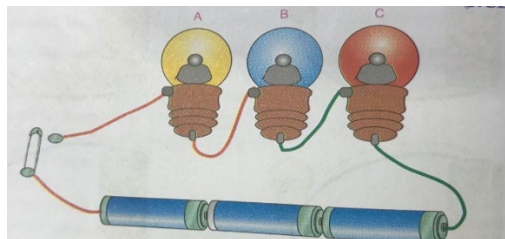
Reason (R )- The material which allows electric current to pass through them are conductors of electricity.

- a) Assertion and Reason both are correct and (R ) is correct explanation of (A).
- b) Assertion and Reason both are correct but (R ) is not correct explanation of (RA).
- c) Assertion is correct statement but Reason is wrong statement.
- d) Assertion is incorrect statement but Reason is correct statement.

10. A bar magnet is immersed in a heap of iron filing and pulled out. The amount of iron filing clinging to the

- a) North pole is almost equal to the south pole.
- b) North pole is much more than the south pole.
- c) North pole is much less than the south pole.
- d) Magnet will be same all along its length.

11. In the circuit shown in figure, when the switch is moved to 'ON' position.



- a) the bulb A will glow first
- b) the bulb B will glow first
- c) the bulb C will glow first
- d) all bulbs will glow together

12. The components of air which are harmful to living being are

- a) nitrogen and carbon dioxide
- b) dust and water vapour
- c) dust and smoke
- d) smoke and water vapour

**B] Fill in the blanks:**

(1 x 6 = 6)

- 13 Electricity we use in our homes is supplied from \_\_\_\_\_.
- 14. The plants and animals live in water is called \_\_\_\_\_ habitat.
- 15. The place where two or more bones meet together is called a \_\_\_\_\_.
- 16. The component of air that supports burning is called \_\_\_\_\_.
- 17. When north pole of one magnet is brought near the \_\_\_\_\_ of another magnet, they attract one another.
- 18. We use \_\_\_\_\_ to test the conductivity of a material.

**C] True or False:**

(1 x 6 = 6)

- 19. Air becomes thinner and thinner as we go higher and higher from the surface of earth
- 20. If we cut a bar magnet in two halves we will have two magnets.
- 21. Cockroaches can not walk.
- 22. Microorganisms are a part of abiotic component.
- 23. We should turn off main switch when there is a short circuit in our homes.
- 24. A compass can be used to find East-West direction at any place.

**D] Match the following:**

(1 x 6 = 6)

COLUMN 'A'	COLUMN 'B'
25. Tendon	a. is a path of electricity
26. Hydrilla	b Magnetic substance.
27. Iron, nickel, cobalt	c. Name of first magnet
28. Atmosphere	d. Aquatic plant
29. Circuit	e. Thin layer of air surrounding our earth
30. Loadstone	f. Joins bones to muscles

### SECTION - B

(This section comprises of Short Answer Type Question carrying 2 marks each. )

(2x 10 =20)

31. What is an electric cell and a battery ? 1+1  
32. What is a conductor and an insulator ? Explain with examples. 1+1  
33. What is the role of long chimneys in factories? 2  
34. What are the properties of air ? 2  
35. What are the specific features present in a deer that helps it to detect the presence of predators like lion?....2  
36. What is bone marrow? Give its main function. 1+1  
37. What are magnetic and non-magnetic material. Give 2 example of each. 1+1  
38. What are the soft and hard magnetic material? 2  
39. Write the type of joint which is used for each of the following movement. 1+1  
a) A girl moves her head in right and left direction.  
b) A person lifts weights to build up his biceps.  
40. What would happen if air were a good conductor of electricity? 2

### SECTION – C

(This section comprises of Short Answer Type Question carrying 3 marks each. )

(3 X 6 =18)

41. What are the advantages of dry cell? 3  
42. Give three main adaptive features in desert plant. 3  
43. Explain the following observation very briefly. 1+1+1  
a) a firki not rotate in a closed area.  
b) An empty glass in fact is not empty.  
c) Breathing through mouth may harm you.  
44. (A) Why are fine hair and mucus present in our nostrils? Why should we not breathe in by mouth? 3  
OR  
44. (B) What is filament? Why does a fused bulb not light up? 1+2  
45. How should two- bar magnets be kept? 3  
46. Describe 1+1+1  
a) Hinge joint            b) Pivotal joint            c) Fixed joint

### SECTION – D

(This section comprises of Long Answer Type Question carrying 5 marks each. )

(5x 4 = 20)

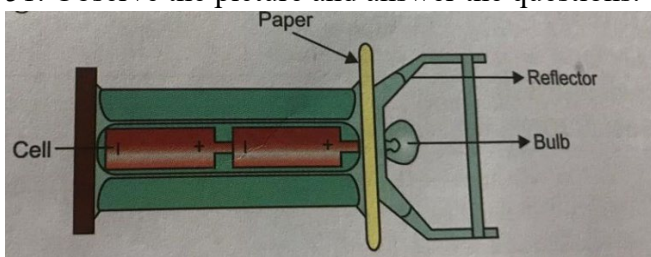
47. How is the skeleton of a bird well-suited for flying.(Give any 5 points) 5  
48. List any 5 activities that are possible due to the presence of air.  
49. Answer the following:  
a) What is conduction tester ? 1  
b) Using the “conduction tester” on an object it was found that the bulb begins to glow. Is that object a conductor or an insulator? Explain 4  
50. (A) Do magnetic pole exist separately like charges? Explain. 5  
OR  
50 (B) Why is atmosphere called the place where exchange of gases in nature occurs? 5

### SECTION – E

(This section comprises of case study based / data based questions carrying 1 marks each. )

(1x12= 12)

51. Observe the picture and answer the questions.

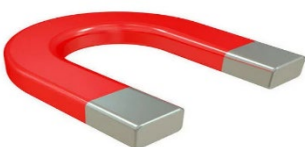


- i. Which is good conductor of heat and electricity? 1
- Paper
  - Dry cloth
  - rubber sheet
  - Aluminum Foil
- ii. Filament of a torch bulb is 1
- a metal case
  - metal tip at the center of the base
  - two thick wires
  - a thin wire
- iii. In a torch , cells are joined in parallel arrangement. True/False 1
- iv. the positive terminal of electric cell is the
- glass case
  - metal disc
  - metal cap
  - filament

52. Read the passage and answer the question.

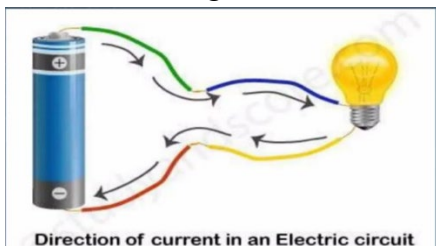
Magnets are pieces of iron or other material which exhibit the properties of magnetism that is the ability to attract other objects that contain iron. Compass needle, fridge magnets and MRI scanner are some examples of magnets. These days magnets come in different shapes and forms such as horseshoe magnet, bar magnet, cylindrical or a ball-ended magnet, needle magnet etc. A great property of magnet is that it can prove extremely helpful in navigating directions. This is because a freely suspended magnet always point in north south direction. This property of magnet used to make compass. A magnetic needle is placed inside a box with direction marked on it. It is allowed to rotate freely so that when the compass is kept at the position of rest, the needle points towards the north south direction.

1. Identify the correct statement 1
- A compass is used to show direction
  - The needle of compass is magnetic
  - The needle of a compass always indicates the north and south direction of the earth
- only (i) and (ii)
  - only (ii) and (iii)
  - only (i) and (iii)
  - all of these
2. How is compass useful to us 1
- In finding the altitude of place.
  - in finding only north of the place.
  - In finding only south of the place.
  - In finding all the direction of the place.
3. Which property of magnet used to make magnetic compass 1
- A magnet attract magnetic material.
  - Like pole repels.
  - A magnet can induce magnetism.
  - A freely suspended magnet align in North -South direction.
4. Identify the magnet 1



- a) horseshoe magnet
- b) bar magnet
- c) cylindrical magnet
- d) needle magnet

53. In the arrangements shown in the Figure, the two terminals of the electric cell were connected to two terminals of the bulb. Such an arrangement is an example of an electric circuit. The electric circuit provides a complete path for electricity to pass (current to flow) between the two terminals of the electric cell. The bulb glows only when current flows through the circuit. In an electric circuit, the direction of flow of current is taken to be from the positive to the negative terminal of the electric cell. When the terminals of the bulb are connected with that of the electric cell by wires, the current passes through the filament of the bulb. This makes the bulb glow.



- i . Electric cell converts: 1
  - a) electric energy into chemical energy
  - b) heat energy into electric energy
  - c) chemical energy into electric energy
  - d) electric energy into light energy
- ii. The direction of flow of electric current in an electric circuit is taken to be from: 1
  - a) negative to positive
  - b) positive to negative
  - c) sometimes positive sometime negative
  - d) none of these
- iii. When the switch is in 'OFF' position in an electric circuit, the circuit becomes: 1
  - a) an open circuit
  - b) a closed circuit
  - c) partially open
  - d) cannot say
- iv. a student studies that electric wires generally have a plastic or rubber coating around them. 1

Which of these describes the role of a coating in a wire?

  - a) It ensures safe transfer of electricity.
  - b) It reduced the wastage of electricity in wires.
  - c) it enable transfer of electricity to long distance.
  - d) It help electricity to move faster from the wires.