

DAV PUBLIC SCHOOLS, ODISHA ZONE

PERIODIC TEST – II (2023-24)

- Please check that this question paper contains 4 printed pages and 19 questions.
- Write down the Serial Number of the question at the left side of the margin before attempting it.

CLASS: VI

SUBJECT: SCIENCE

Time : 1 Hour 30 Minutes

Maximum Marks: 40

General Instructions:

1. All questions are compulsory.
2. Ques. 1 to 8 are very short answer (VSA) type and carry 1 mark each.
3. Ques No. 9 is Assertion Reason based question and carries 1 mark.
4. Ques. 10 is case study based and carry four bits of 1 mark each.
5. Ques. 11 to 14 are short answer type (SA I) and carry 2 marks each.
6. Ques. 15 to 17 are short answer type (SA II) and carry 3 marks each.
7. Ques. 18 & 19 are long answer type questions (LA) and carry 5 marks each.

SECTION-A

1. Name the parts of a dry cell that acts as its positive and negative terminal respectively.
2. Draw the symbols of -
 - a. An electric switch (off position)
 - b. An electric bulb
3. Silver being a good conductor of electricity is not used for making wires. Justify.
4. Mention the type of root in case of the following plants.
 - a. 'rope - like roots hanging down from the branches in banyan tree
 - b. roots arising from the stem and penetrating into the stem tissues of the host plant such as dodder
5. Predict the significance of pedicel in case of flowering plants.
6. State the type of mechanical energy possessed by the following:
 - a. a box placed at a height
 - b. a chalk piece released from a stretched catapult
7. Sound of rolling thunder and bursting of bus tyre are the examples of noise. Why are they called noise ?

8. Give example of any two objects or devices which produces sound energy from electrical energy.

SECTION-B

9. **DIRECTION:** In the following questions, a statement of **assertion (A)** is followed by a statement of **reason(R)**. Mark the correct choices as:
- (a) Both the assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)
 - (b) Both assertion (A) and reason (R) are true but reason (R) is **not** the correct explanation of assertion (A)
 - (c) Assertion (A) is true but reason (R) is false.
 - (d) Assertion (A) is false but reason (R) is true.

Assertion (A): Petals form the outermost ring of the flower.

Reason(R): The outermost ring provides protection to the bud before it blooms.

10. **Read the following passage carefully and answer the following questions.**

An electric bulb has a filament that is connected to the terminals. The two terminals of filament are fixed with two thick wires that provide support to it. These terminals are fixed in such a manner that they do not touch each other.

a. Filament is -

- (i) a thin wire that gives off light when the bulb is switched on
- (ii) fixed to two thick wires which provide support to it
- (iii) Both a and b are correct
- (iv) None of these is correct

b. Filament present inside the bulb is made up of -

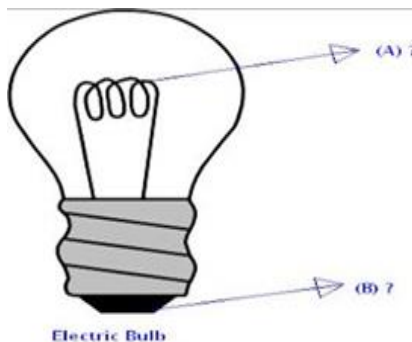
- (i) Aluminum
- (ii) Chromium
- (iii) Platinum
- (iv) Tungsten

c. An electric bulb glow when -

- (i) the circuit is open
- (ii) electric current flows through the circuit to the bulb
- (iii) the switch is in off position
- (iv) the cell is used up

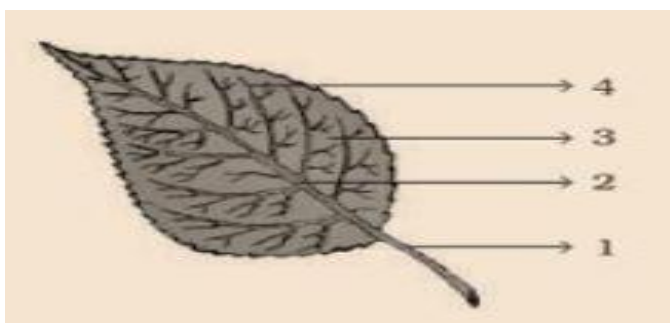
d. What are the pointers "A" and "B" shown in the figure given below-

- (i) Supporting wire and filament
- (ii) Filament and terminal
- (iii) Terminal and supporting wire
- (iv) Holder and filament



SECTION-C

11. Identify the part 1, 2, 3 and 4 in the given diagram of leaf.

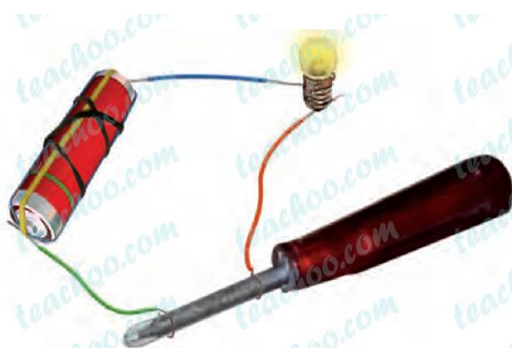


12. Distinguish between 'applying a force' and 'doing work'. Give suitable examples.

13. Mention the type of energy transformation taking place in the following:

- a. Photosynthesis
- b. Cell

14. In which of following case (A) or (B) the bulb will glow. Compare your observations and give reason to your answer.



(A)



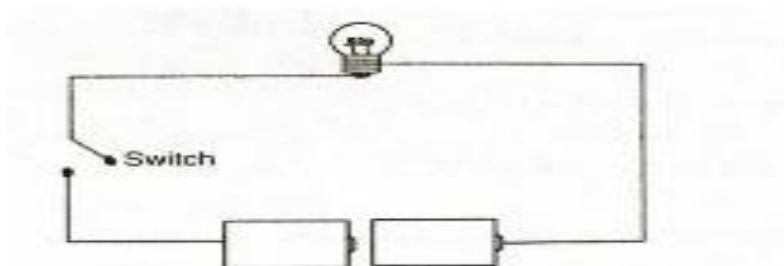
(B)

SECTION-D

15. a. Give two examples of underground root that stores food.
b. **P** and **Q** are two plants having modified leaves that helps the plants to climb. The plants have some modified part **R** that can grow towards any support and help them to grow further.
i. Identify the part **R** of the plant.
ii. Name the plant **P** and **Q**.
16. 'Heat is a form of energy which can be used to move objects'. Justify the statement with the help of an activity.
17. a. State any two main functions of the stem of a plant.
b. Differentiate between pollen grains and ovules.

SECTION-E

- 18.a. Draw a neat labelled diagram of the structure of a flower. (Label any four parts)
b. Illustrate the significance of seeds in case of flowering plants. (any two points)
19. a. Mention any two things that must be done to make the bulb light up in the following case.



- b. State the direction of the flow of electric current in a current carrying circuit.
c. Now-a-days LED based lamps are on great demand over CFLs as light sources. Justify. (any two points)