

# NEW AL WUROOD INTERNATIONAL SCHOOL, JEDDAH, K.S.A

Affiliated to CBSE – New Delhi, Affiliation No. 5730008

TERM-3- March, 2022-23

WORKSHEET -1

GRADE:7

SUBJECT: SCIENCE

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## CHOOSE THE CORRECT ANSWER

1. Which of these make up the female reproductive part of a flower?
  - a. Filament
  - b. Anther
  - c. Ovary
  - d. Style.
2. Choose all the statements that are true about an electric cell.
  - a. Electric cells convert chemical energy to electric energy.
  - a. An electric cell can run an electric iron.
  - b. All the electric cells can be reused again and again.
  - c. An electric cell is a source of electric current.
3. Choose the one that is not a primary colour
  - a. Red
  - b. Blue
  - c. Yellow
  - d. Green

## Assertion - Reasoning based questions.

These consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- a) Both A and R are true and R is the correct explanation of A
  - b) Both A and R are true and R is not the correct explanation of A
  - c) A is true but R is false
  - d) A is False but R is true
4. Assertion- An electric iron works on the heating effect of electric current  
Reason-Some electrical appliances are made to heat up more, and we use the heat generated by them.

5. Assertion-Sepal protects the flower at the bud stage.  
Reason-Petals attract insects.

**ANSWER THE FOLLOWING QUESTIONS(1 mark)**

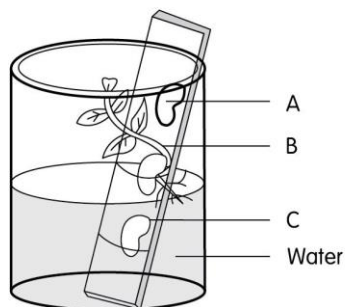
6. How is blue different from cyan, based on their colour type?  
7. Renne ate a peach. Which part or layer of the fruit did she most likely eat?  
8. What are electromagnets.  
9. Why does a watermelon has only one seed ,while a muskmelon has many seeds?

**ANSWER THE FOLLOWING QUESTIONS(2 mark)**

10. Write 2 differences between the mesocarp of grapefruit and the mesocarp of pumpkin.



11. Why do we sometimes see a rainbow over a waterfall on a bright, sunny day?  
12. Look at the picture showing the result of an experiment done with 3 bean seeds. Match the seeds with their result.



| Options      | Answers   |
|--------------|---|
| A.<br>Seed A | Germinated due to sufficient oxygen, moisture, and suitable temperature |
| B.<br>Seed B | Did not germinate due to lack of sufficient moisture                    |
| C.<br>Seed C | Did not germinate due to lack of sufficient oxygen                      |

**ANSWER THE FOLLOWING QUESTIONS (3 mark)**

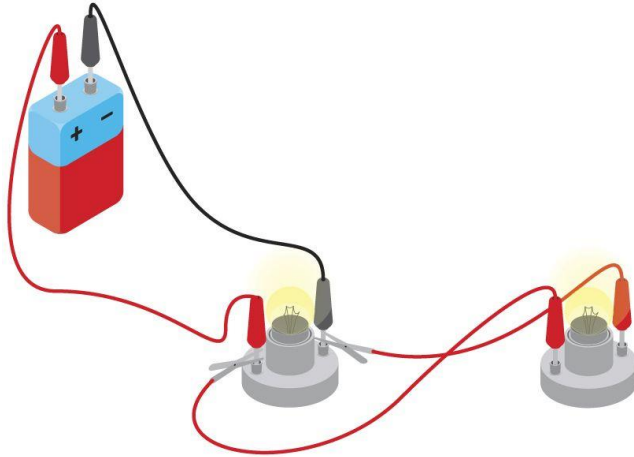
13. Draw a venn diagram to show how primary colours of light mix to form white and secondary colours.
14. Some orchids are very difficult to propagate in natural conditions. How is tissue culture helpful in overcoming this problem with orchids?
15. Read the statement and answer the questions:
  - i. Explain what happens after this.
  - ii. What will happen to the ovary and ovule of the capsicum flower after fertilization?

**CASE BASE STUDY QUESTIONS (4 marks)**

16. John and Sam made their electromagnets using a core of the same material and size. John wrapped 50 turns of wire around the core, while Sam wrapped 30 turns. Both of them connected the two open ends of the coils to a 9 V battery.
  - i. Whose electromagnet will be stronger and why?
  - ii. Write any two differences between an electromagnet and permanent magnet.
17. Flower X has big, colourful petals. It also produces a fragrance. The flower is bisexual.
  - i. Explain the pollination process in flower X.
  - ii. Mention the pollinating agents that are most likely to help in the pollination process.

**ANSWER THE FOLLOWING QUESTIONS (5 mark)**

18. Observe the diagram and answer the questions.

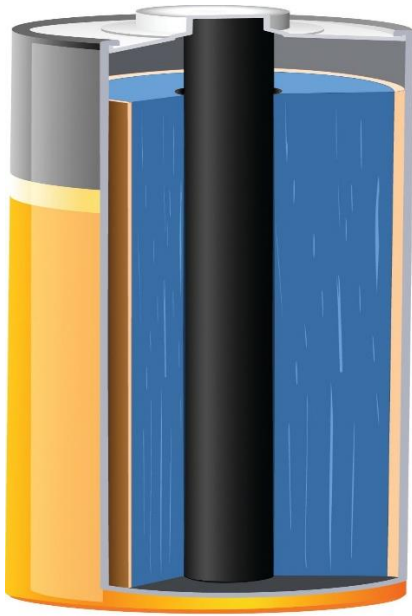


- i. How are the bulbs connected in this circuit?
- ii. What will happen if the second bulb fuses in the circuit?
- iii. Draw the circuit diagram for the given circuit.

19.

- i. Explain the process of sexual reproduction in a pine tree.
- ii. How is fragmentation in mosses different from its sexual life cycle. (give two differences)

20. Look at the cross section of an electric cell and answer the questions.



- i. What are the 2 parts of an electric cell that are connected in the electric circuit? Where are those 2 parts found in this cell?
  - ii. What is the rod in the middle made of and how is it important?
  - iii. What is the substance that fills the space between the rod and the case surrounding it? What is its significance?
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