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

Affiliated to CBSE – New Delhi, Affiliation No. 5730008

TERM-3- March, 2022-23

WORKSHEET -2

GRADE:7

SUBJECT: SCIENCE

Choose the correct answer

1. Which of these turns into an electromagnet in an electric bell?
   i. Spring
   ii. Contact screw
   iii. Soft iron piece
   iv. Iron strip.
2. Which of these is not a pollinating agent?
   i. Wind
   ii. Soil
   iii. Water
   iv. Insects.
3. Which of these materials should not be used as the core when making a strong electromagnet?
   i. Soft iron
   ii. Steel
   iii. Wood
   iv. Cobalt

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-Flowers bloom on the plant during fertilization

Reason-Flowers are the reproductive organs of flowering plants.

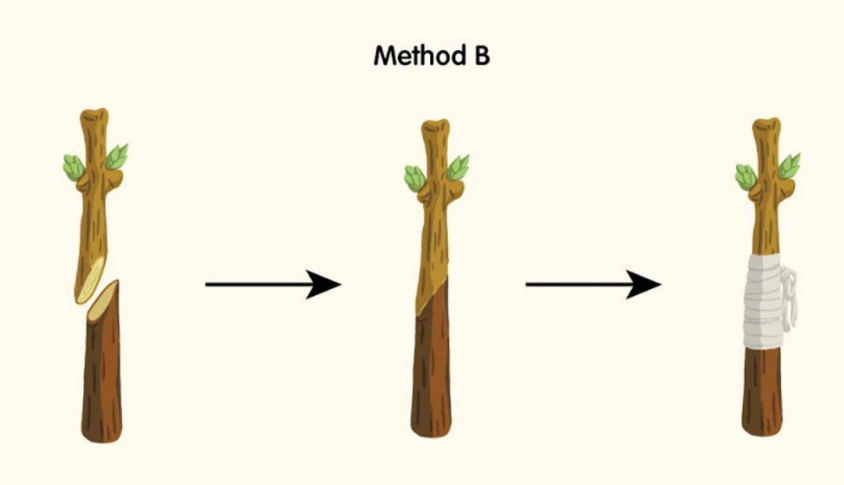
5. Assertion-Any colour can be formed by the primary colours of light.
   Reason-Two colours that combine to form white light are called complementary colours.

ANSWER THE FOLLOWING QUESTIONS(1 mark)

6. An object appears green in white light. What colour would it appear to be when seen in red light?
7. Define a solenoid.
8. Which two parts make up the stamen in a flower?
9. A humming bird helps in pollinating a flower.How are both the flower and humming bird benefitted from this process?

ANSWER THE FOLLOWING QUESTIONS(2 marks)

10. Look at the pictures and answer the questions.



   i. Which method of asexual reproduction is natural and which is artificial?
   ii. How is the process of asexual reproduction different in both methods?

11. Match the parts of the flower with their functions

A. Ovary	produces pollen
B. Anther	receives pollen

C. Filament	produces ovules
D. Stigma	holds anther

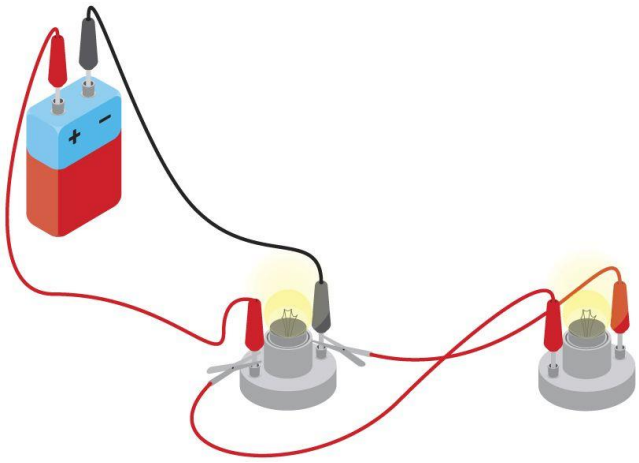
12. Read the passage and choose if True or False.

When the connections of a battery in a circuit are reversed, the magnetic needle placed nearby shows a deflection but in the opposite direction, in comparison to the direction in which it deflected earlier.

a. The magnetic needle shows a deflection due to the magnetic effect of electric current.
   i. True
   ii. False
b. The direction of the magnetic field depends on the direction of electric current passing through a conductor.
   i. True
   ii. False

ANSWER THE FOLLOWING QUESTIONS (3 mark)

13. 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?

14. Label the male and female reproductive organs of a flower in a neat labelled diagram.

15.
   i. If a red laser beam is made incident on a prism, what would we see?
   ii. Explain why would you see it?
   iii. Draw a picture to show what would happen.

CASE BASE STUDY QUESTIONS(4 marks)

16. Nora arranged asset up in which 2 current carrying loops are hung parallel to each other. She noticed that the two loops were attracting each other when current was flowing through them in the same direction and they were repelling each other when current was flowing in the opposite direction.
    i. Name the principle..
    ii. Name the Scientist who first noticed this principle.
    iii. What can you conclude from this observation.
17. All seeds have a suitable temperature range within which they germinate. For example tomatoes germinate fast between 15-20^{0}C while turnips germinate fast between 25-35^{0}C.
    i. What are the other conditions required for germination?
    ii. Do Cauliflower and okra seeds germinate in the same season?

ANSWER THE FOLLOWING QUESTIONS (5 mark)

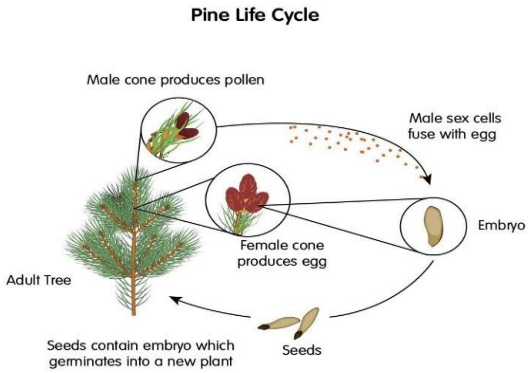
18. Look at the picture of a multi-pin extension cord, through which we can connect multiple devices. Answer the questions.

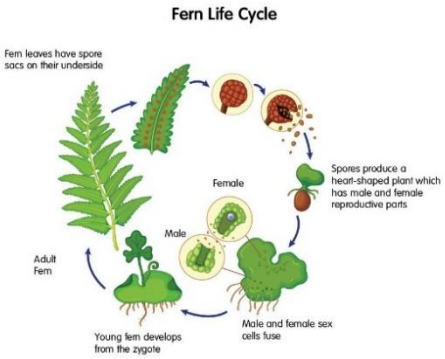
i. Which type of connection ensures the smooth functioning of all these devices – series or parallel? Explain why.
ii. What will happen if the devices are connected in series?

19. A reflected ray of light makes an angle of 20 degrees with the surface of a mirror.
    i. What is the angle of incidence?
    ii. What would be the angle of reflection.

iii. Show the calculation with the help of a diagram.

20. Look at the pictures showing the life cycle of 2 different non-flowering plants and answer the questions.





i. How is the sexual reproduction in ferns different from that in pines? Fill in the table.

Feature	Fern	Pine
Location of male and female reproductive parts		
Product of the fusion of male and female sex cells		