



BK BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
SENIOR SECONDARY|CO-ED DAY CUM BOYS' RESIDENTIAL
SCHOOL



MID-TERM EXAMINATION 2023-24

SCIENCE (MARKING SCHEME)

Class : VI
Date : 21.10.23
Admission No.:

Duration : 3 Hrs
Max. Marks : 80
Roll No.:

| Choose the correct answer.

16x1=16 marks

1. Night blindness is caused due to deficiency of vitamin _____ 1
(a) A (b) B1 (c) C (d) D
2. Beriberi is caused due to deficiency of vitamin _____ 1
(a) A (b) B1 (c) C (d) D
3. Scurvy is caused due to deficiency of vitamin _____ 1
(a) A (b) B1 (c) C (d) D
4. Rickets is caused due to deficiency of vitamin _____ 1
(a) A (b) B1 (c) C (d) D
5. Anaemia is caused due to deficiency of _____ 1
(a) Iron (b) B1 (c) C (d) D
6. _____ is a herbivore. 1
(a) cow (b) lion (c) tiger (d) none of these
7. _____ is a carnivore. 1
(a) cow (b) goat (c) tiger (d) none of these
8. _____ is a omnivore. 1
(a) Human being (b) goat (c) tiger (d) none of these
9. _____ is the stem of the plant. 1
(a) Potato (b) carrot (c) radish (d) none of these
10. _____ is the fruit of the plant. 1
(a) tomato (b) carrot (c) radish (d) none of these
11. In solar eclipse Sun _____ and Earth are in straight line. 1
(a) Sun (b) Moon (c) Star (d) None of these
12. _____ have green stem. 1
(a) tree (b) herb (c) shrub (d) none of these

13. _____ have woody stem. 1
 (a) tree (b) herb **(c) shrub** (d) none of these
14. Flowering plants are the plants that bear _____. 1
 (a) **Flowers** (b) cone (c) rhizome (d) none of these
15. _____ is a non-flowering plant. 1
 (a) **Fern** (b) rose (c) sunflower (d) none of these
16. Burning of a paper is a _____ change. 1
 (a) Physical **(b) chemical** (c) mechanical (d) all of these

II Assertion / Reasoning

4x1=4 marks

Directions: In the following questions, a statement of assertion is followed by a statement of reason. Mark the correct choice as:

- (a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
 (b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
 (c) If Assertion is true but Reason is false.
 (d) If both Assertion and Reason are false.

- 17. Assertion:** Melting of ice is a physical change. 1

Reasoning: Ice melts when temperature increases.

Ans : (a)

- 18. Assertion:** Rusting of iron is a chemical change. 1

Reasoning: When iron reacts with oxygen in the air it gets oxidised and forms iron oxide.

Ans: (a)

- 19. Assertion:** Cooking of rice is a chemical change . 1

Reasoning: Once rice is cooked, taste changes and we cannot get our raw rice back.

Ans : (a)

- 20. Assertion:** Boiling of potato is a chemical change. 1

Reasoning: Once potato is boiled it is tasty and we cannot get the raw potato back.

Ans: (a)

III Answer the following.

6x2=12marks

21. What is rectilinear propagation of light? 2

Ans: Rectilinear propagation of light means that light travels in a straight line.

OR

What are transparent objects?

Ans: Transparent objects are the objects that allow the light to pass through them.

22. What are herbivores? 2

Ans: Herbivores are animals that eat grass.

23. Mention functions of root. 2

Ans: Root fix the plant to the soil.

It absorb water and mineral from the soil.

24. Mention functions of leaf. 2

Ans: Leaf prepare food for the plant with the help of sunlight, water and CO₂.

25. Mention fat soluble vitamins. 2

Ans: Fat soluble vitamin are :

Vitamin E

Vitamin K

Vitamin A

Vitamin D

26. Mention water soluble vitamins. 2

Ans: Water soluble vitamins are:

Vitamin B

Vitamin C

IV Answer the following.

7x3=21marks

27. Identify the changes mentioned below are reversible or irreversible. 3

a. Melting of chocolate ----- reversible change

b. Cooking food. ----- irreversible change

c. Freezing of ice. ----- reversible change

28. What are herbs? Explain. 3

Ans: Herbs are short plants.

They have green stem.

They have tender stem.

Example: Mint, strawberry.

29. Differentiate between tap root and fibrous root with the help of a diagram. 3

Ans: Diagram

30. Explain solar eclipse with the help of a diagram. 3

Ans: Diagram.

In solar eclipse Sun, Moon and Earth are in straight line.

Moon is in between Sun and Earth

Moon cast its shadow on Earth.

31. Explain umbra and penumbra with the help of a diagram.

3

Ans: Diagram

Umbra is a dark patch of shadow there no light reaches.

Penumbra is a part of a shadow that receive some amount of light.

OR

What are opaque objects? Explain with the help of a diagram.

Ans: Diagram

Opaque objects are the objects that do not allow the light to pass through them.

32. What are trees? Explain.

3

Ans: Trees are tall.

They have hard trunk.

Branches arise from the top of the trunk.

They are 3 – 4 meter long.

Eg: Mango, Neem.

Diagram

33. Are roots of some plants edible? If yes then give any three examples.

3

Ans: Yes roots of some plants are edible.

Eg: Carrot, radish and beet root.

V Answer the following in brief.

3X4=12marks

34. Read the passage and answer the following questions.

Food is important for living beings. Plants make food with the help of sunlight, carbon dioxide and water. Animals that eat plants and are known as herbivores. Animals that eat flesh are known as carnivores. Animals that eat both are known as omnivores. Living organism depend on one another for food. A food chain tells us who eats whom. Scavengers such as vulture and fox are also part of food chain.

(a) What is food chain?

2

Ans: Food chain tells us who eats what.

(b) Explain with the help of a diagram.

2

Ans: Diagram

35. Read the passage and answer the following questions.

Many a times you must have seen a dark patch of your own body on ground in sunlight. This is called shadow. You must have also observed that in dark night or in dark area we are not able to find shadow. This means that shadow is formed in light. Also you must have noticed that shadow is formed when an opaque body blocks the path of light.

(a) How is shadow formed?

2

Ans: Shadow is a dark patch when an opaque object blocks the path of a light.

(b) Mention three essential things required to make shadow with the help of a diagram.

2

Ans: The three essential things required to make a shadow are:

(i) Source of light.

(ii) Opaque object

(iii) Screen.

Diagram

36. Read the passage and answer the following questions.

Parts of a flower

Sepals are the outermost layer of a flower. They protect the lower in the bud stage.

They are green in colour.

Petals are colourful part of the flower. They attract insects.

Stamen is the male part of the flower and pistil is the female part of the flower.

Pistil is divided into three parts- stigma, style and ovary..

(a) Explain parts of a flower with the help of a diagram.

2

Ans: Diagram

OR

Explain pistil with the help of a diagram.

Ans: Diagram

(b) Name the part of the flower which is colourful and attract insects. **1**

Ans: Petal

(c) Pistil is divided into how many parts? **1**

Ans: Pistil is divided into three parts.

VI Answer the following in detail.

3x5=15marks

37. Explain with the help of an experiment that various food items are rich in starch. **5**

Ans: Aim: To prove that various food items are rich in starch.

Material needed: potato, onion, Maggie, wheat flour, rice , iodine , dish and dropper.

Method: Take a dish

Put potato, onion, Maggie, wheat flour, rice , iodine , dish and dropper in it.

Put iodine on potato, onion, Maggie, wheat flour and rice with the help of dropper.

Observation : potato, Maggie, wheat flour and rice turns blue black after putting iodine.

It proves that all these food items potato, Maggie, wheat flour and rice are rich in starch.

Onion does not change its colour after putting iodine hence it proves that onion is not rich in starch.

OR

Explain symptoms of Covid 19 and precautions taken.

Ans: Diagram with explanation.

38. Explain with the help of an experiment that light travels in a straight line. **5**

Aim: To prove that light travels in straight line.

Material required: A candle, Match box and Pipe

Method: Take a candle

Light it up

Take a pipe.

Keep the candle at one end of the pipe (straight).

Observe the candle from another end.

Light is visible from other end of straight pipe.

Now bend the pipe.

Try to observe the candle from another end of the bend pipe

Candle is not visible.

Conclusion: It proves that light travels in a straight line.

OR

Explain the characteristics of an image formed by a plane mirror.

Ans: Image formed is of the same size.

Image formed is upright.(Erect)

If we raise our left hand then image raise its right hand.

If we raise our right hand then image raise its left hand.

Image is laterally inverted.

If we go far away from mirror then image also goes far away.

If we go close to mirror then image also come close.

EXPLAIN WITH THE HELP OF A DIAGRAM

39. What is chemical change? Explain with the help of an example.

5

OR

What kind of change is burning of paper? Explain.

Ans: Burning of paper is a chemical change.

It is a permanent change.

A new substance ash is formed.

We get heat out of it.

We get light out of it.

WE get smoke out of it.

DIAGRAM