

Time: 3 hr.

General Instructions:

1. All questions are compulsory.
2. Attempt all questions section wise in the serial order neatly and leave one line after every answer.
3. Draw neat and labelled diagrams wherever required.

Section - I (10 marks)

Q1. Answer the following in one word :

(10×1=10)

1. Name the source of vegetable protein.
2. Name the disease caused by deficiency of Iodine.
3. Name one magnetic material.
4. Name a gas that does not dissolve in water.
5. Which method of separation is used to separate grains from husk and hay with the help of wind?
6. In which of the separation method we use churner?
7. Name a plant that needs light to germinate.
8. Name the response of plants towards light.
9. Give one example of Sedimentary rocks.
10. Which quantity describes the amount of water vapour in air?

Section - II (20 marks)

Q2. Answer the following questions briefly :

(2×10=20)

1. Write any two functions of Roughage.
2. It is good to eat the same food every day? Give reason.
3. Why are the handles of cooking utensils made from Bakelite or wood?
4. Write any two differences between translucent and opaque materials.
5. Define:
a) Heterogeneous mixture b) Sedimentation
6. If a mixture can be separated by using both sedimentation - decantation and filtration, then which method would people generally prefer and why?
7. Like many animals although a car also moves it is not considered as a living organism. Give two reasons.
8. Define: a) hydrotropism b) germination
9. Why forests are called green lungs?
10. Write any two consequences of deforestation.

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Section - III (30 marks)

(3×10=30)

Q3. Answer the following questions in detail :

1. Explain two ways in which human activities pollute the water. What steps can you take to reduce water pollution?
2. a) Define response.
b) Ravi touches a hot pan and quickly pulls his hand away. Identify the stimulus and response.
3. a) Generally, a chemical is used to make the finer suspended particles settle down quickly. Name the chemical and define the process involved.
4. a) Name two materials which are non - conductors of electricity.
b) Why is silver not used for making cables and wires despite being a good conductor of electricity?
5. Shreya went to a dentists. She complained about swelling and bleeding gums.
a) Name the disease she might be suffering from?
b) Which food component may be lacking in her diet?
c) Suggest some food items that she should include in her diet.
6. Name the method that will be used to separate the following :
a) oil mixed with water
b) corn mixed with potatoes
c) grinded mixture of sand and powdered dry leaves
7. Which of the following materials will float and sink based on their density
Petrol, vinegar, milk, lemon juice, kerosene and diesel
8. a) Name a complex carbohydrate
b) How can you test the presence of fat in a given sample?
9. a) What is the full form of CNG and LPG?
b) Why CNG is an ideal fuel?
10. a) Name the method to obtain cream from unboiled milk.
b) The _____ (soluble/ insoluble) solid particles are retained by the filter and clear liquid is collected as ____ (residue/ filtrate).

Section - IV (20 marks)

(1×1=1)

Q5. Multiple Choice Questions

1. **Assertion (A) :** Some gases have the property to dissolve in water.
Reason (R) : Nitrogen dissolve in water.
a) Both A and R are true and R is the correct explanation of A.
b) Both A and R are true but R is not the correct explanation of A.
c) A is true and R is false
d) A is false but R is true

B - 2

a) Label the parts a, b, c

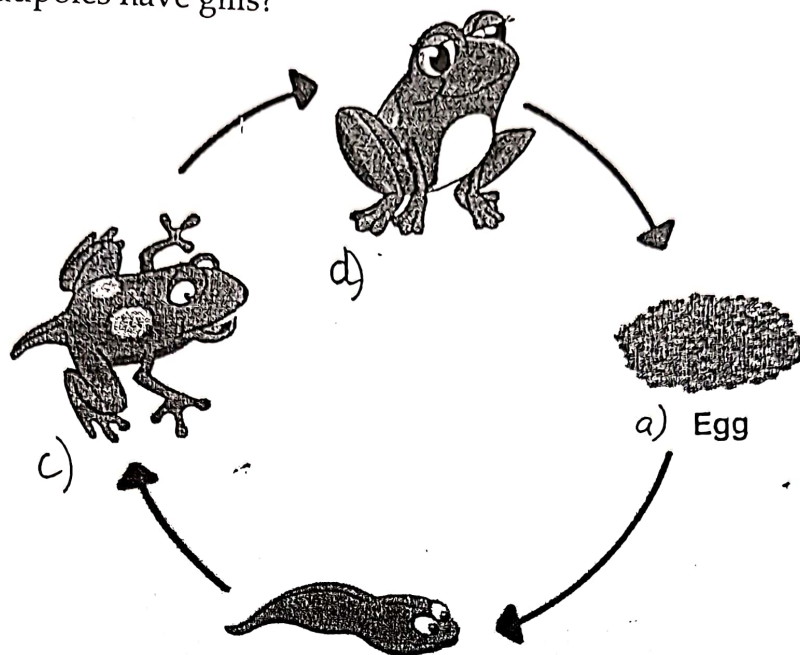
(3)

b) What is the cluster of eggs of frog called?

(1)

c) Why do tadpoles have gills?

(1)



3. Match the Following:

(5×1=5)

Column I

Column II

1. Diamond	a) Fluorine
2. Petroleum	b) Night blindness
3. Limestone	c) Mineral
4. Vitamin A	d) Non-renewable
5. Tooth decay	e) Hardest substance

4. Answer the following:

(5×1=5)

- LPG is _____, so a strong smelling compound is added to it for its detection in case of leakage.
- When a plant is kept upright, the root grows _____ and the shoot grows _____.
- Stone is _____ while chalk is _____.

5. State whether True or False:

(2×1=2)

- A piece of wood doesn't float on water.
- Beri - Beri is caused due to deficiency of Vitamin B₁.

6. Multiple Choice based questions:

(2×1=2)

- The disease 'arthritis' is caused by deficiency of which mineral?
a) Chlorine b) Zinc c) Calcium d) Iodine
- Which of the following is a fossil fuel?
a) Forest b) Coal c) Water d) Minerals