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Class: VII
Annual Examination (2024-25)
CHEMISTRY
Set - C2

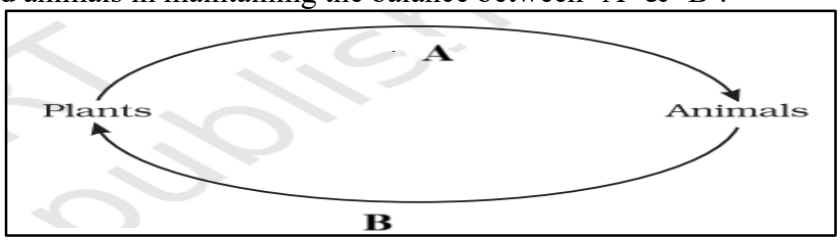
Time Allowed: $2^1/_2$ **Max. Marks: 20**

Q1	MCQ: (i) The following chemical equation is an example of _____ process. **Hydrochloric acid + Sodium hydroxide → Sodium chloride + Water** **HCl + NaOH → NaCl + H2O** (a) Crystallisation (b) Neutralisation (c) Rusting (d) Physical change (ii) Liquified petroleum gas (LPG) is a common fuel. In the cylinder it is stored as a liquid. When the knob of the burner is switched on a gas comes out from the burner (Change - A) then it burns when a burning matchstick is brought near to burner (Change - B). Choose the correct statement from the following: (a) A is a chemical change & B is a physical change . (b) A is a physical change & B is a chemical change. (c) Both processes A and B are chemical changes. (d) Both processes A and B are physical changes. (iii) To improve sanitation, low cost onsite sewage disposal systems are being encouraged. Some of the examples are: (a) Septic tanks (b) Chemical toilets (c) Composting pits. (d) All of above	1*3
Q 2	Following question consists of two statements- **Assertion (A)** and **Reason (R).** Answer these questions by 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. **Assertion (A):** Walking over the dead leaf layer on the forest floor is like walking over a warm spongy carpet. **Reason (R):** The decomposition of organic matter releases heat. This process also creates a soft and dark organic matter.	1

<table>
<tr><td>Q 3</td><td>(a) Ekam got skin rashes due to an ant bite. Suggest what should be applied on the rashes. Explain.
(b) Complete the table:
<table><tr><th>Substance</th><th>Acid/Base</th></tr><tr><td>Tamarind</td><td></td></tr><tr><td>Magnesium hydroxide</td><td></td></tr></table></td><td>1,1</td></tr>
<tr><td>Q 4</td><td>Match the following:
<table><tr><td>(a) Activated sludge</td><td>(i) Chlorine and ozone</td></tr><tr><td>(b) Disinfect water</td><td>(ii) Cholera, Typhoid, Polio</td></tr><tr><td>(c) Water borne disease</td><td>(iii) A pipe carrying sewage</td></tr><tr><td>(d) Sewer</td><td>(iv) Contains 97% water</td></tr></table>OR
State what is the function of the following in wastewater treatment:
(a) Grit and sand removal tank
(b) Bar screens</td><td>½*
4

2</td></tr>
<tr><td>Q 5</td><td>(a) Why should oils and fats be not released in the drain? Explain
(b) Good sanitation prevents disease. Explain.
(c) Explain why it is harmful to discharge untreated sewage into rivers or seas.</td><td>3</td></tr>
<tr><td>Q 6</td><td>Properties such as shape, size, colour and state of a substance are called its physical properties. A change in which a substance undergoes a change in its physical properties is called a physical change. A physical change is generally reversible. In such a change no new substance is formed. A chemical change on the other hand is an irreversible change and there is a change in chemical properties of the substance.

(a) What is the chemical name of neela thotha?
(b) When a candle burns, both physical and chemical changes take place. Identify these changes.
(c) Write a word equation of process when an iron nail is added into copper sulphate solution. What is the type of change?
OR
(c) Write 2 observations made during burning of magnesium ribbon? What type of change is it? Explain.</td><td>1,1,
2</td></tr>
</table>

Q 7	(a) Observe the flow diagram given below and identify 'A' & 'B'. State what is the role of plants and animals in maintaining the balance between 'A' & 'B'.  (b) What is humus? What is its importance to the soil? (c) Write the correct sequence of given organisms to form a food chain. Eagle, Grass, Snake, Insects, Frog OR (a) Identify the layers A and B in a forest as shown in the above image. Define A. (b) Explain how forests prevent floods. (c) Name the useful products obtained from the following: (i) Sandalwood tree (ii) Babool tree (iii) Neem tree (iv) Sheesham tree	2,2, 1 2,1, 2

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