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SUMMATIVE ASSESSMENT - I

SCIENCE

Cla	ass: VII			Max. Marks: 90							
Da	te:			Time: 3 hours							
Ge	neral Instructions	:									
	 This question paper has 9 questions and 3 printed pages. Write the correct serial number of the question before attempting it. Please draw a line with a scale after ever answer. 										
1.	Choose the corre	ct a <mark>nswer to each o</mark> f th		1x10=10							
a.	Which of these surround stomatal opening?										
	i. chloroplast	ii. chlorophyll	iii. water	iv. guard cells							
b.	The chewing of food to break it into small pieces is called										
	i. mastication	ii. pseudopodia	iii. nutrition	iv. absorption	111						
c.	The valency of the underlined radical in the compound NaNO3 is										
	i. 3	ii. 2	iii. 1	iv. 4							
d.	Which of these has the largest size of particles?										
	i. silt	ii. sand	iii. clay	iv. loam							
e.	The formula for sodium sulphate is										
	i. Na ₂ SO ₃	ii. Na ₃ SO ₃	iii. Na ₂ SO ₄	iv. Na ₄ SO ₂							
f.	What is the name of an animal of the camel family that gives us wool?										
	i. Angora	ii. Alpaca	iii. Yak	iv. Sheep							

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	212 ⁰ F is the same temperature as													
	i. 100 ° C	ii. 100 ⁰ F	iii. 21 2º C	iv. 0^{0} C										
h.	Which of these is a strong acid?													
	i. sulphuric acid	ii. citric acid	iii. acetic acid	iv. tartaric acid										
i.	Which of these absorbs and retains the maximum water?													
	i. sandy soil	ii. clayey soil	iii. loam soil	iv. sandy-loam soil										
j.	Conduction takes i. solids only	s place in ii. liquids only	iii. gases only	iv. all of these										
2.	Correct the underlined words and rewrite the statements:													
 a. Valency of calcium element is zero. b. Animal fibres are made up of <u>carbohydrate</u>. 														
							с.	c. Mushroom is a <u>parasite</u> .						
 d. Atomicity of helium is two. e. Structure in cells that contain chlorophyll are called stomata. f. Oxygen gets absorbed from the atmosphere during photosynthesis. 														
							g.	 g. Warming of eggs to a temperature suitable for hatching is called spinning. h. Celsius temperature scale is used for scientific work. i. Sea and land breezes are caused by currents set up in air due to radiation. j. Cotton fibre gives a characteristic burning hair smell on being burnt. 						
							h.							
i.														
j.														
3.	Give one word fo	r each of the follow	ing:		1x4=4									
a.	Non-porous layer	of soil above which r	ainwater gathers:											

Property of silk that makes it so attractive:

During digestion, proteins are changed into:

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d. Small projections in the small intestine that help in absorption of digested food:

4. Balance the following chemical equation:

1x4=4

- a. $Na + H_2O \longrightarrow NaOH + H_2$
- b. $N_2 + H_2 \longrightarrow NH_3$
- c. NaNO₃ ----- Na NO₂+ O₂
- d. $CH_4 + O_2 \cdots \rightarrow CO_2 + H_2O$

5. Give reasons for the following statements in 30-40 words:

2x7=14

- a. Farmers do not add fertilizers to soil in which leguminous plants are grown.
- b. Topsoil has much more humus than subsoil.
- c. Magnesium hydroxide is used as an antacid.
- d. Expansion joint and pipe loops are made in piping systems.
- e. Firemen usually crawl while entering a building where fire has broken out.
- f. Most elements are not found in the free state in nature.
- g. Properties of different compounds are so different from each other.

6. Answer the following question in 40-50 words:

2x3=6

- a. How can you test for the presence of starch in a leaf?
- b. How are autotrophs different from heterotrophs?
- c. Explain peristalsis with the help of a diagram.

7. Answer the following questions in 50-60 words:

2x8=16

a. What is the function of dull black colour at the back of refrigerators?

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- b. What conditions are necessary for transfer of heat from one body to another by conduction?
- c. Convert 95° F to $^{\circ}$ C.
- d. Define valency in terms of hydrogen.
- e. What happens when hydrochloric acid reacts with Magnesium? Also write the chemical reaction.
- f. How does exchange of gases take place in leaves? Explain with the help of a diagram.
- g. What is an acid base indicator? Give one example.
- h. What is the function of acid and digestive juices in the stomach?
- 8. Draw neat and well-labelled diagrams of the following:

3x2=6

- a. Human digestive system.
- b. Soil profile.
- 9. Answer the following questions in detail and draw labelled diagrams wherever required:

4x5 = 20

- a. Explain with the help of a diagram the working of an automatic fire alarm.
- b. Explain the ingestion of food in hydra.
- c. Ramsaran was working in a sericulture industry for many years. One day he fell sick and doctor diagnosed him with a skin disease. Ramsaran's friend, Mohanlal who was an animal right activist was always opposed to Ramsaran working in the sericulture industry. He advised his friend to quit his job. He helped Ramsarn financially and took care of him until he got well.
 - i. Which disease is Ramsaran likely to suffer from?
 - ii. Why is it common in workers working in sericulture industry?
 - iii. Why are animal right activists opposed to the process of getting silk from cocoon?
 - iv. What values are displayed by Mohanlal?
- d. Describe an experiment to show the process of conduction.
- e. List four properties of bases. Give two uses of Calcium hydroxide.

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