



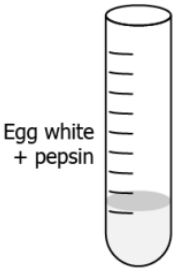
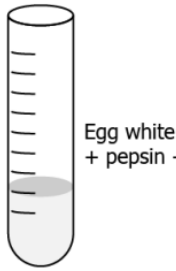
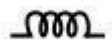
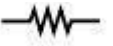
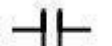
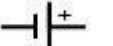
Date: 18/07/2022  
GRADE: X


MONTHLY TEST -02 (2022-23)  
SCIENCE (086)

Max marks: 20  
Time: 1 Hour

General Instructions:

1. There are 9 questions in the question paper.
2. All questions are compulsory.
3. Draw diagrams, wherever necessary.

Q.No		Marks allocated
<b>SECTION A</b>		
1	<p>A student sets up an experiment to study the role of enzymes in digestion of food.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Egg white + pepsin</p> <p>A</p> </div> <div style="text-align: center;">  <p>Egg white + pepsin + HCL</p> <p>B</p> </div> </div> <p>In which test tube, the digestion of protein will occur?</p> <p>A) Test tube A as pepsin will break down into simple molecules.            B) Test tube B as HCl will break down protein into simple molecules.            C) Test tube A as pepsin will break down protein into simple molecules.            D) Test tube B as HCl will activate pepsin for breakdown of protein into simple molecules.</p>	1
2	<p>Which among the following is the unit for electric current?</p> <p>A) Volt            B) Ampere            C) Ohm            D) Farad</p>	1
3	<p>Which among the following is the symbol for resistance?</p> <p>A)             C)             B)             D) </p>	1

4	2g of ferrous sulphate crystals are heated in a boiling tube, which one of the following is not an observation for this reaction (A) The color changes from light green to blue (B) On heating, the ferrous sulphate crystals lose water (C) On heating the ferrous sulphate crystals gives ferric oxide (D) It is an example for decomposition reaction	1
<b>SECTION B</b>		
5	Design an experiment to prove that sunlight is necessary for photosynthesis.	2
<b>SECTION C</b>		
6	Explain the ways of breakdown of glucose by various pathways, in order to obtain energy in organisms.	3
7	<p>The following diagram displays a chemical reaction. Observe carefully and answer the following questions.</p>  <p>A) Identify the type of chemical reaction that will take place and define it. B) How will the colour of the salt change?</p>	3(2+1)
8	What is rancidity? Mention any two ways by which rancidity can be prevented.	3
<b>SECTION D</b>		
9	(A) How much current will an electric bulb draw from a 220V source if the resistance of the bulb filament is 1200 ohm? (B) How much current will an electric heater coil draw from a 220 V source. If the resistance of the heater coil is 100 ohms?	5 (2.5+2.5)
<b>THE END</b>		

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