



**Date: 06/11/2023**  
**GRADE: X**

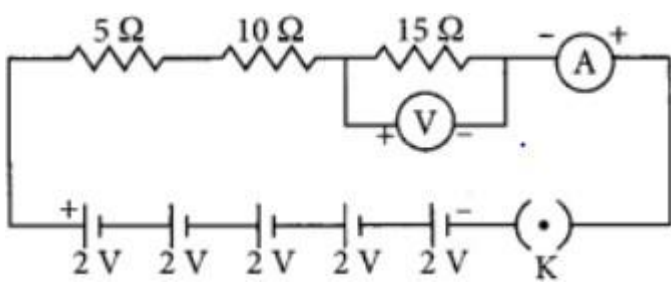
**MONTHLY TEST -3 (2023-24)**  
**SCIENCE (086)**

**Max marks: 20**  
**Time: 50 min**

**MS**

General Instructions:

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

Qn. No		Marks allocated
<b>SECTION A</b>		
1	b)7 covalent bonds	1
2	(d) Nature of the material	1
3	d)gene	1
4	Following question consist of two statements – Assertion (A) and Reason (R). Select the appropriate option given below:  (a) Both A and R are true and R is the correct explanation of A.	1
<b>SECTION B</b>		
5	Roasting is heating the ore in presence of excess air or oxygen. Used for sulphide ores. $Cu_2S + O_2 \rightarrow CuO + SO_2$ Calcination is heating the ore in limited supply or absence of air. $ZnCO_3 \rightarrow ZnO + CO_2$	2
<b>SECTION C</b>		
6	 <p>(ii) <math>R = R_1 + R_2 + R_3 = 5 + 10 + 15 = 30 \text{ ohm}</math> (iii) <math>V = 2 + 2 + 2 + 2 + 2 = 10 \text{ V}</math> <math>I = V/R = 10/30 = \frac{1}{3} \text{ A}</math></p>	3

7	<p>Right hand thumb rule: If you are holding a current carrying conductor in your right hand such that your thumb shows the direction of current, then the other fingers show the direction of the magnetic field.</p> <p>Fleming's left hand rule: Stretch the thumb, forefinger and central finger of your left hand such that they are mutually perpendicular. If the forefinger points in the direction of the magnetic field, and the central finger points in the direction of current, then the thumb will point in the direction of motion of the conductor.</p>	1+2
8	<p>a)</p> <p>b) In thermit process Al is used to reducing agent to reduce iron oxide.  <math display="block">\text{Fe}_2\text{O}_3 + \text{Al} \rightarrow \text{Fe} + \text{Al}_2\text{O}_3</math></p>	2+1
<b>SECTION D</b>		
9	<p>(i) The function of the ovary is to produce the egg which develops in the Graafian follicle. The ovary is also responsible for the production of the hormones progesterone and estrogen.</p> <p>(ii) The function of the uterus is to provide space for the growth of the embryo. The placenta is developed as the point of attachment between the embryo and the uterus for providing nutrients.</p>	(2+3=5)

(iii) The function of the fallopian tube is to provide the site for fertilization.

Fertilization takes place in the ampulla region in the fallopian tube.

(b) The placenta is the structure that develops from part of chorion that

forms villi and the underlying uterine tissues with maternal capillaries. It

is an organ of exchange that provides oxygen and nutrients to the fetus and

removes waste produced by the fetus. It also provides antibodies to provide

protection to the fetus.

**THE END**