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Grade : X	Subject : Science	Marks : 80
PRACTICE PAPER	Empower – 1	Time : 3 h

SECTION – A

- _____ helps in activation of trypsin in small intestine.
- Medulla is associated with Respiration. (True/False).
- What is biomagnification?

ASSERTION-REASON TYPE QUESTIONS

The following questions consist of two statements: assertion (A) and reason (R). To answer these questions, mark the correct alternative as directed below:

- If both A and R are true and R is correct explanation of A.
 - If both A and R are true but R is not the correct explanation of A.
 - If A is true but R is false.
 - If both A and R are false.
- ASSERTION:** Lungs always contain residual volume of air.
REASON: It helps in efficient exchange of gases.
 - ASSERTION:** Ozone is both beneficial and damaging.
REASON: Stop the use of CFC to protect ozone.
 - Sneezing is _____.
 - Combination reaction is opposite of _____ chemical reaction.
(a) Decomposition (b) Displacement (c) Double Displacement (d) None
 - All decomposition reactions are endothermic. True/False
 - Double displacement reaction is also known as _____ reaction.
 - Acids react with metal to produce _____.
(a) Carbon dioxide (b) H_2 (c) $CO_2 + H_2O$ (d) None
 - Which salt has 5 molecules of water of crystallization?
(a) Blue vitriol (b) Baking soda (c) Washing soda (d) Gypsum
 - The chemical formula for Gypsum is _____.
 - Chemical formula for iron rust is _____.
 - The unit for Power is.....
 - Which of the following is an incorrect unit of Voltage?
(a) Nm/C (b) J/As (c) Js/A (d) W/A
 - The bi-directional cycle change in AC generated by an Electric Generator is due to.....
 - Fuse is made up of.....
 - Solar Cells are made of.....
 - Nuclear fusion generates more energy than nuclear fission. (TRUE / FALSE)
 - Why does Voltage remain same in parallel series.

SECTION – B

- What are the main parts of brain? What role do they play?
- a. How plants perform transportation?
b. What are the two reactions of photosynthesis? Explain them.
- Draw the labeled diagram of human heart.

4. a. How nastic movements differ from tropic movements?
b. What is phytohormone? Write their types.
5. Explain food web with an example.
6. Explain the importance of pH in everyday life.(atleast 3)
7. What is neutralization reaction? Give two examples.
8. What are alloys? Give two examples with their composition.
9. Write a note on Electromagnetic Induction.
10. Write a note on Electric Power.

SECTION – C

1. Write a note on Electric Motor.
2. (a) Define Joule's Heat.
(b) Write a note on Electric Power and define 1KWh.
(c) From the circuit, state what reading will the ammeter and the voltmeter show?
3. Describe mechanism of human respiratory system with labeled diagram.
4. (a) Define acid and base on the basis of physical properties. (atleast two points)
(b) Give the chemical equations for chemical properties of acids.(atleast 3 points).
5. A) Tabulate the secretion, location and function of thyroid gland, adrenal gland and thymus gland.
B) Explain feedback mechanism with example.

