



ANGEL'S PUBLIC SCHOOL

SAMPLE PAPER

PERIODIC TEST – I SESSION 2024 – 25

CLASS – X CODE – 086

SUBJECT : SCIENCE

TIME : 2 HRS

M.M:40

General Instruction.

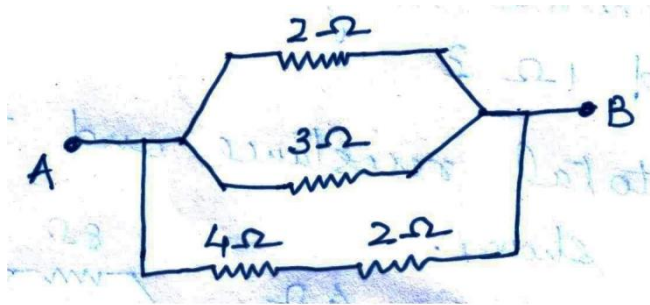
- (a) All questions are compulsory.
- (b) Section – A contains ten multiple choice questions of 1 mark each.
- (c) Section – B contains eight questions of 2 marks each.
- (d) Section – C contains three questions of 3 marks each.
- (e) Section – D contains one questions of 5 mark.

SECTION – A

Multiple choice Questions.

1. In Ohm's law experiment the physical quantity are to be kept constant while doing experiment are _____.
(a) Potential difference (b) current (c) temperature (d) none of these
2. The mode of nutrition found in fungi is:
(a) Parasitic nutrition (b) Holozoic nutrition (c) Autotrophic nutrition (d) Saprotrophic nutrition
3. Removal of hydrogen is also known as _____.
(a) oxidation (b) rancidity (c) reduction (d) corrosion
4. The S.I units for resistivity are _____.
(a) Ωm^2 (b) Ωm (c) $\frac{\Omega}{m}$ (d) Ωm^3
- 5.....Nitrogenous waste excreted through urine in humans.
(a) Trimethylamine (b) Ammonia (c) Uric acid (d) Urea
6. Photosynthesis is an example of one of the following reaction _____.
(a) reduction (b) oxidation (c) exothermic (d) endothermic
7. Work of 14 J is done to move 2 c charge between two points on a conducting wire. What is the potential difference between the two points?
(a) 28 V (b) 14 V (c) 7 V (d) 3.5 V
- 8.The contraction and expansion movement of the walls of the food pipe is called _____.
(a) translocation (b) transpiration (c) peristaltic movement (d) digestion

9. What is the net resistance between the two points in the circuit?



- (a) 0.5Ω (b) 1Ω (c) 1.5Ω (d) 2Ω

10. The breakdown of pyruvate to give carbon di-oxide, water and energy takes place in_____.

- (a) cytoplasm (b) mitochondria (c) chloroplast (d) nucleus

SECTION – B

11. State and explain ohm’s law. Write its mathematical formula and draw graph for it.
 12. State two differences between arteries and veins.
 13. Explain with suitable example :
 (a) double displacement reaction (b) thermal decomposition
 14. What are villi? What are its functions?
 15. Why do we store silver chloride in dark coloured bottles? Explain with chemical reaction.
 16. How does the opening and closing of stomata take place?
 17. What is redox reaction? Give one example.
 18. Explain displacement reaction by using colour change reaction.

SECTION – C

19. A copper wire has diameter 0.5mm and resistivity of $1.6 \times 10^{-8} \Omega \text{ m}$. What will be the length of this wire to make its resistance of 10Ω ?
 20. What is the significance of small Intestine in our body?
 21. Write the balance chemical equation of the following:
 (a) Sodium carbonate + hydrogen chloride \rightarrow sodiumchloride + hydrogen carbonate
 (b) Barium chloride +aluminium sulphate \rightarrow barium sulphate +aluminium chloride
 (c) Lead nitrate + sodium sulphate \rightarrow lead sulphate + sodium nitrite.

SECTION – D

22. (a) How can three resistors of resistance 2Ω , 3Ω and 6Ω are connected to get a total resistance of 4Ω and 1Ω ?
 (b) Find the total resistance and total current as shown.

