

Tsi9S

Tenkasi District Common Examinations
Second Mid Term Test - November 2022



Standard - 9

SCIENCE

Part - A

Time: 1.30 hrs

Marks: 50

I. Choose the correct answer.

8x1=8

1. Electric field lines. from positive charge and in negative charge.
 - a) start; start
 - b) start; end
 - c) start: end
 - d) end; end
2. Electroplating is an example for
 - a) heating effect
 - b) chemical effect
 - c) flowing effect
 - d) magnetic effect
3. which of the following converts electrical energy into mechanical energy?
 - a) Motor
 - b) Battery
 - c) Generator
 - d) Switch
- 4 The unit of magnetic flux density is
 - a) Weber
 - b) weber/metre
 - c) Weber / metre²
 - d) weber. meter²
5. Elements with stable electronic configurations have eight electrons in their valence Shell. They are
 - a) halogens
 - b) metals
 - c) noble gases
 - d) non metals
6. To prevent the entry of food into the trachea, the opening is guarded by
 - a) epiglottis
 - b) glottis
 - c) hard palate
 - d) Soft palate
7. The structural and functional unit of the kidney is
 - a) villi
 - b) liver
 - c) nephron
 - d) ureter
8. The physician who discovered that Scurvy can be cured by ingestion of citrus fruits is
 - a) James Lind
 - b) Louis pasteur
 - c) charles Darwin
 - d) Issac Newton

II. Answer very briefly (any six)

6x2=12

9. Define electric current and give its unit
10. List the main parts of an electric motor
11. NaCl is insoluble in carbon tetrachloride [CCl₄] but soluble in water Give reason
12. correct the wrong statements
 - a) Ionic compounds dissolve in non polar solvents
 - b) covalent compounds conduct electricity in molten or solution state
13. How is the small intestine designed to absorb digested food?
14. Name the types of teeth present in an adult human being. Mention the functions of each
15. what is an adulterant?
16. State whether True or False. If false, correct the statement
 - a) A generator converts mechanical energy into electrical energy

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III. Answer briefly (any four)**4x4=16**

17. List the safety features while handling electricity.
18. a) Differentiate step up and step down transformer
b) Fill in the blanks
i) The SI unit of magnetic field induction is
ii) An electric motor converts.
19. a) why are Noble gases inert in nature ?
b) identify the following reactions as oxidation or reduction
i) $\text{Na} \rightarrow \text{Na}^+ + \text{e}^-$ ii) $\text{Fe}^{3+} + 2\text{e}^- \rightarrow \text{Fe}^+$
20. Match the following.

Organ	Elimination
i) Skin	Urine
ii) Lungs	Sweat
iii) Intestine	Carbon dioxide
iv) Kidneys	Undigested food

21. Give the abbreviations for the following
1) ISI 2) FPO 3) AGMARK 4) FSSAI
22. a) Sanjana wants to buy a jam bottle in a grocery shop. what are the things she should observe on the label before purchasing it?
b) Explain any two methods of food preservation?

IV. Answer in detail**2x7=14**

23. a) i. calculate the amount of charge that would flow in 2 hours through an element of an electric bulb drawing a current of 2.5A
ii. A bird sitting on a high power electric line is still safe. How?
(OR)
- b) List down the differences between Ionic and covalent compounds.
24. a) Explain the structure of kidney and the steps involved in the formation of urine
(OR)
- b) How are vitamins useful to us? Tabulate the sources, deficiency diseases and symptoms of fat soluble vitamins.

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