

ANNUAL EXAMINATION - 2024**9 - STD****SCIENCE**

TIME: 2.30 Hrs

Marks : 75

I. Choose the correct answer.**12 x 1 = 12**

1. Choose the correct one.
a. mm < cm < m < km b. mm > cm > m > km c. km < m < cm < mm d. mm > m > cm > km
2. Electroplating is an example for
a. heating effect b. chemical effect c. flowing effect d. magnetic effect
3. Transformers works on
a. AC only b. DC only c. Both AC and DC
4. The sound waves travel faster
a. in liquids b. in gases c. in solids d. in vacuum
5. The term nucleons refer to
a. protons and electrons b. only neutrons
c. electron and neutrons d. protons and neutrons
6. Number of valence electrons in Carbon is.....
a. 2 b. 4 c. 3 d. 5
7. Buckminster fullerene contains carbon atoms.
a. 30 b. 40 c. 50 d. 60
8. Which of the following does not contain natural dyes?
a. Potato b. Beetroot c. Carrot d. Turmeric
9. The animal without skull is
a. Acrania b. Acephalia c. Apterina d. Acoelomate
10. Aerenchyma is found in
a. epiphytes b. hydrophytes c. halophytes d. Xerophytes
11. The organ affected by Jaundice is
a. liver b. lungs c. kidney d. brain
12. The production and management of fish is called.....
a. pisciculture b. seri culture c. Aqua culture d. mono culture

II. Answer any 7 of the following questions. Q.No. 22 is compulsory.**7 x 2 = 14**

13. What is meant by magnification? Write its expression.
14. What is meant by supersonic speed?
15. State Modern periodic law.
16. Fill in the blanks : a) Alcohol can be separated from water by
b) isotope is used in the nuclear reactors.
17. Sulphuric acid is called King of Chemicals? Why is it called so?
18. Mention the difference between Stomatal and lenticular transpiration.
19. Match the following :

Skin	-	Urine
Lungs	-	Sweat
Intestine	-	Carbon dioxide
Kidneys	-	Undigested food

20. Why is an important to conserve water.
 21. Pick out the odd one.
 a) AIDS, Retrovirus, Lymphocytes, BCG
 b) Bacterial disease, Rabies, Cholera, Common cold and influenza.
 22. An object travels 16m in 4 seconds and then another 16m in 2 seconds. What is the average speed of the object?

III. Answer any 7 of the following. Q.No.32 is compulsory

7 x 4 = 28

23. a) What is meant by uniform circular motion? Give 2 examples.
 b) Why does a helium balloon float in air?
 24. a) Define : Electric current b) State Fleming's Left hand rule.
 25. a) Ice is kept in a double walled container. Why?
 b) What is specific heat capacity?
 26. What are the uses of plaster of paris?
 27. a) Differentiate graphite and diamond.
 b) What are called Anesthetics. How are they classified?
 28. a) Differentiate between flat worms and round worms.
 b) **True or False. If false correct the statement.**
 i) Parenchyma is a simple tissue ii) Phloem is made up of tracheids
 29. a) Why your doctor advises you to drink plenty of water?
 b) What is an adulterant?
 30. List the medicinal importance of honey.
 31. a) What is nastic movement?
 b) $6\text{CO}_2 + \text{?} \xrightarrow[\text{Chlorophyll}]{\text{sunlight}} \text{?} + 6\text{O}_2 \uparrow$
 32. Find the oxidation number of the elements in the following compounds.
 a) C in CO_2 b) Mn in MnSO_4

IV. Answer the following questions

3 x 7 = 21

33. a) Discuss the benefits of ISS. (5)
 b) What factors have made life on earth possible? (2) (OR)
 a) Differentiate Mass and Weight (4)
 b) State the Laws of flotation. (3)
 34. a) State any 5 features of Modern periodic table. (5)
 b) Explain Tyndall effect (2) (OR)
 a) Name three safer Resin Codes of plastic and describe their features.
 35. a) List out the differences between Mitosis and Meiosis. (5)
 b) Define Taxonomy. (2) (OR)
 a) What is adaptation? List out the adaptations of xerophytes.