

09-T3-SCIENCE-TIRUPATTUR**ANNUAL EXAMINATION - 2023****STD - IX****SCIENCE****MARKS : 75****TIME : 3.00 Hrs****I. Choose the correct answer****12 x 1 = 12**

- In a pressure cooker the food is cooked faster because
 - increased pressure lowers the boiling point
 - increased pressure rises the boiling point
 - decreased pressure rises the boiling point
 - increased pressure lowers the melting point
- Which of the following converts electrical energy into mechanical energy?
 - motor
 - Battery
 - generator
 - switch
- _____ is used as reflectors in torch light
 - concave mirror
 - plane mirror
 - convex mirror
- The sound waves travel faster
 - in liquids
 - in gases
 - in solids
 - in vacuum
- When we mix a drop of ink in water, we get a _____
 - heterogeneous mixture
 - compound
 - homogeneous mixture
 - suspension
- Elements in the modern periodic table are arranged in _____ groups and _____ periods
 - 7,18
 - 18,7
 - 17,8
 - 8,17
- The hydrated salt of copper sulphate has _____ colour.
 - red
 - white
 - blue
- Which of the following does not contain natural dyes?
 - Potato
 - beetroot
 - carrot
 - turmeric
- mesoglea is present in _____
 - porifera
 - coelenterata
 - annelida
 - arthropoda
- Transpiration takes place through _____
 - fruit
 - seed
 - flower
 - stomata
- Which of the following is transmitted through air?
 - tuberculosis
 - meningitis
 - typhoid
 - cholera
- A presentation consists of many _____
 - pages
 - slides
 - place holders
 - messages

II. Answer any 7 questions. Q.No. 22 Compulsory**7 x 2 = 14****13. Match the following**

- | | | |
|--------------------|---|----------------|
| a. Screw Guage | - | vegetables |
| b. Vernier caliper | - | Coins |
| c. Beam Balance | - | Gold Ornaments |
| d. Digital Balance | - | Cricket ball |

14. State Fleming's Left Hand rule.

15. How does the water kept in earthen pot remain cool?

16. State True or False. If False, Correct the statement.

- Isotopes of an element have different atomic numbers.
- Smaller the size of the orbit lower is the energy of the orbit.

17. What are the uses of Plaster of paris (any two)?

18. Differentiate : Graphite and Diamond.

19. What is nematocyst?

20. Fill in the Blanks:

- a) Parenchyma, collenchyma, sclerenchyma are _____ type of tissue.
 b) _____ & _____ are complex tissues.

21. Differentiate: Kwashiorkar from marasmus.

22. Calculate the amount of charge that would flow in 2 hours through an element of an electric bulb drawing a current of 2.5A.

III. Answer any 7 questions. Q.No. 32 is Compulsory

7 x 4 = 28

23. a) Compare Speed & Velocity. b) What is meant by atmospheric pressure?
 24. a) Through which medium sound travels faster, iron or water? Give reason.
 b) What is Solar System?
 25. a) What is specific Heat capacity? b) What is meant by magnification? write its expression.
 26. a) State Modern periodic table. b) What are the limitations of mendaleev's periodic table?
 27. Complete the table given below:

Elements	Atomic Number	Electron Distribution	Valence Electrons
1. Lithium	3	--	--
2. Boron	5	--	--
3. Oxygen	8	--	--
4. Sodium	11	--	--

28. Expand the following: 1. ISI : 2. FCI : 3. WHO : 4. HIV :

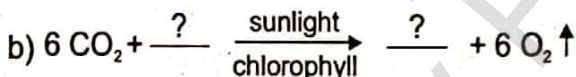
29. Match the following

- a) Coelenterata - Snail
 Platyhelminthes - Star Fish
 Echinodermata - Tape Worm
 Mollusca - Hydra

b) Why your doctor advises you to drink plenty of water?

30. List the medicinal importance of honey.

31. a) Mention the differences between stomatal and lenticular transpiration.



32. Calculate the atomic number of an element whose mass number is 39 and number of neutrons is 20. also find the name of the element?

IV Answer the following questions. *YouTube - Akwa Academy* 3 x 7 = 21

33. a) Write the rules that are followed in writing the symbols of units in SI system.

b) Differentiate Mass and Weight.

(or)

Explain the principle, construction and working of a DC motor.

34. a) Write the differences between elements and compounds and give an example for each.

b) What is neutralization reaction? Give an example. (or)

Find the oxidation number of the elements in the following compounds:

- a) C in CO_2 b) Mn in MnSO_4 c) N in HNO_3

35. List out the differences between mitosis and meiosis. (or)

a) Differentiate between tropic and nastic movements

b) List some of the ways in which you could save water in your home and school.