

# 08-T3-SCIENCE-TIRUPATTUR

## ANNUAL EXAMINATION - 2023

STD - VIII

SCIENCE

MARKS : 100

TIME : 2.30 Hrs

**I. Choose the correct answer**

10 x 1 = 10

1. The unit of charge is  
a) Coulomb      b) Ampere      c) Radian      d) S teradian
2. Rain drops are spherical in nature because of .....  
a) Frictional Force      b) Buoyant Force      c) Surface Tension      d) Viscous Force
3. Sound waves travel very fast in .....  
a) air      b) vacuum      c) metals      d) liquids
4. Mangalyan was sent to .....  
a) Moon      b) Mars      c) Venus      d) Mercury
5. The non-metal which conducts electric current is  
a) Carbon      b) Oxygen      c) aluminium      d) sulphur
6. In water, hydrogen and oxygen are combined in the ratio of ..... by mass.  
a) 1 : 8      b) 8 : 1      c) 2 : 3      d) 1 : 3
7. The main components of natural gas is .....  
a) Ethane      b) Methane      c) butane      d) propane
8. The First land plants are  
a) bryophytes      b) pteridophytes      c) gymnosperm      d) angiosperm
9. Wildlife Protection Act was implemented in  
a) 1972      b) 1986      c) 1971      d) 1973
10. All functions begins with an ..... sign.  
a) =      b) -      c) >      d) }

**II. Fill in the blanks**

10 x 1 = 10

11. The spherical mirror used as a rear view mirror in the vehicle is .....
12. .... are used to lift heavy iron pieces.
13. The working principle of Rockets .....
14. .... is the basic material to manufacture urea.
15. .... is a negatively charged particle.
16. Red ant sting contains .....
17. The largest cell is egg of an .....
18. Iron deficiency leads to .....
19. .... is observed as World Wild Life Day
20. .... is a plant growing in a place where it is not wanted.

**III. State True or False. If false correct the statement**

5 x 1 = 5

21. The process of converting a substance from solid to gas is called condensation.
22. The ability of ISRO to send 108 satellite in a single mission is a great example of his expertise.
23. Anthracite is known as the highest grade coal.
24. Cardiac muscle is a voluntary muscle.
25. Human beings are warm blooded in nature.

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**IV Match the following****5 x 1 = 5**

- |                                 |   |                |
|---------------------------------|---|----------------|
| 26. Electron                    | - | James Chadwick |
| 27. Proton                      | - | Tamilnadu      |
| 28. Neutron                     | - | Uttarakhand    |
| 29. Corbett National Park       | - | J.J.Thomson    |
| 30. Indira Gandhi National Park | - | Gold Stein     |

**V Answer briefly. Answer any 15 of the following questions.****15 x 2 = 30**

31. Define One atmosphere
32. State the laws of reflection.
33. Define one calorie.
34. One should not use an umbrella while crossing an open field during thunderstorm. Why?
35. What are the hazards of noise pollution?
36. Earth acts as a huge bar magnet. Why?
37. What are cryogenic Fuels?
38. Can you store pickle in an aluminium utensil? Give reason.
39. Mention the various conditions required for a chemical reaction to occur.
40. It is said that sleeping beneath the tree during night is not good for health. What is the reason?
41. State the law of conservation of mass?
42. What are the methods of removing hardness of water?
43. Name the places in Tamilnadu harnessing wind energy from wind mills.
44. Write the difference between algae and fungi.
45. Tabulate the differences between aerobic and anaerobic respiration.
46. How is the skeleton of a bird well-suited for flying?
47. Write a note on Blue cross.
48. Write a short note on Probiotics?
49. What is biosphere reserve?
50. What is cell address?

**VI. Answer in detail. Answer any eight of the following questions.****8 x 5 = 40**

51. List out the base quantities with their units.
52. List out the uses of magnets. *YouTube - Akwa Academy*
53. Explain Series and Parallel circuit?
54. What are the achievements of chandrayaan I?
55. Name the elements with the following symbols. a) Na b) Ba c) Au d) Al e) Fe
56. Discuss how acid rain occurs due to emission of smoke from vehicles and industries.
57. Explain the different ways by which water get polluted.
58. Explain the different types of coal.
59. Write the names of medicinal plants and explain their uses?
60. Draw the structure of human eye and label its parts?
61. Explain the causes and effects of deforestation.
62. Explain the personal hygiene habits for the adolescence.