

**ANNUAL EXAMINATION - 2024****8 - STD****SCIENCE**

TIME: 2.30 Hrs

Marks : 100

**I. Choose the correct answer.****10 x 1 = 10**

- S.I unit of Temperature is .....  
a. Celsius                      b. Fahrenheit                      c. Kelvin                      d. Ampere
- If the area of contact is greater, then the ..... will be greater.  
a. Pressure                      b. Friction                      c. Temperature                      d. Force
- Find the odd one out.  
a. Harmonium                      b. Flute                      c. Nadaswaram                      d. Violin
- ..... is called as Red Planet.  
a. Mercury                      b. Venus                      c. Earth                      d. Mars
- In water, hydrogen and oxygen are combined in the ratio of ..... by mass.  
a. 8 : 1                      b. 1 : 8                      c. 2 : 3                      d. 3 : 2
- The liquid metal used in thermometers is .....  
a. Copper                      b. mercury                      c. silver                      d. gold
- The main component of natural gas is .....  
a. methane                      b. ethane                      c. propane                      d. butane
- One of the following is an edible mushroom  
a. Polyporus                      b. Agaricus                      c. Pennicillium                      d. Aspergillus
- Wild life protection act was implemented in .....  
a. 1971                      b. 1986                      c. 1972                      d. 1973
- Which of the following is a relational operator?  
a. +                      b. >                      c. -                      d. Not

**II. Fill in the blanks****10 x 1 = 10**

- The mirror used by the ophthalmologist to examine the eye is .....
- A magnet has ..... magnetic poles.
- ..... was the first man to walk on the surface of the moon.
- ..... is a negatively charged particle.
- The chemical name of water is .....
- Bases are ..... in taste.
- ..... is a good example for anaerobic respiration.
- ..... helps to prevent thyroid gland related diseases.
- ..... is a plant growing in a place where it is not wanted.
- ..... National park was the first national park at India.

**III. State True or False. If false give corrections.****5 x 1 = 5**

- In a thermos flask, the silvered walls reflect and radiate the heat outside.
- Chandrayan - I was launched from Chennai.
- Anthracite is known as the highest grade coal.
- Female anopheles mosquito is a carrier of dengue virus.
- Cardiac muscle is a voluntary muscle.

**IV. Match the following.****6 x 1 = 6**

- 26. Law of conservation of mass - Sir William Crookes
- 27. Law of constant proportion - J.J. Thomson
- 28. Cathode rays - Joseph Proust
- 29. Anode rays - James Chadwick
- 30. Neutrons - Lavoisier
- 31. Plum Pudding model - Goldstein

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

- 32. Define friction.
- 33. State Snell's law of refraction.
- 34. Name three types of heat transfer.
- 35. What are the hazards of noise pollution?
- 36. Distinguish between natural and artificial magnets.
- 37. Name the Indians worked at NASA.
- 38. What is earthing?
- 39. Define Alchemy.
- 40. What is pollution?
- 41. State the law of constant proportions.
- 42. What are the methods of removing hardness of water?
- 43. What is a neutralization reaction?
- 44. Name the places in Tamilnadu harnessing wind energy from wind mills.
- 45. Write the four types of bacteria, based on their shape.
- 46. Write any two characters of dicotyledons.
- 47. Tabulate the differences between aerobic and anaerobic respiration.
- 48. What is Cranium?
- 49. What is adolescence?
- 50. What is bio-indicator?
- 51. Write the advantages of the Red Data Book.

**VI. Give reason to the following :****3 x 3 = 9**

- 52. One should not use an umbrella while crossing field during thunderstorm.
- 53. It is said that sleeping beneath the tree during night is not good for health. What is the reason.
- 54. Human eye is compared with Camera.

**VII. Answer in detail for any six of the following :****6 x 5 = 30**

- 55. Describe an experiment to show that sound cannot travel through vacuum.
- 56. List out the uses of magnets.
- 57. What are the achievements of Chandrayaan I?
- 58. What are the effects of acid rain? How can we prevent them?
- 59. Explain the different ways by which water gets polluted.
- 60. Solar energy is a non depleting energy. Justify.
- 61. Name the different types of joints? Give one example for each type.
- 62. Give a detailed account of irrigation.
- 63. Explain the nutritional needs of adolescence in brief.