

**Standard 8
SCIENCE**

Time: 2.30 Hours

Marks: 100

10x1=10**I. Choose the correct answer:**

- 1) S.I. unit of Temperature is
a) Celsius b) Fahrenheit c) Kelvin d) Ampere
- 2) If the area of contact is greater, then the will be greater
a) Pressure b) Friction c) Temperature d) Force
- 3) Find the odd one out:
a) Harmonium b) Flute c) Nadaswaram d) Violin
- 4) is called as Red Planet
a) Mercury b) Venus c) Earth d) Mars
- 5) 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
- 6) The liquid metal used in thermometers is
a) copper b) mercury c) silver d) gold
- 7) The main component of natural gas is
a) Methane b) Ethane c) Propane d) Butane
- 8) One of the following is an edible mushroom
a) Polyporus b) Agaricus c) Penicillium d) Aspergillus
- 9) Wild life protection act was implemented in
a) 1971 b) 1986 c) 1972 d) 1973
- 10) Which of the following is a relational operator?
a) + b) > c) - d) Not

II. Fill in the blanks:**10x1=10**

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

III. State True or False. If false give corrections.**5x1=5**

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

IV. Match the following.**6x1=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 | - Gold Stein |

V. Answer in any 15 of the following questions.**15x2=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 wind energy from wind mills
- 43) What is a neutralization reaction?
- 44) Name the places in Tamilnadu harnessing hardness of water?
- 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.**3x3=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.**6x5=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
-