

Standard 8

SCIENCE

Maximum Marks: 100

Time Allowed: 2.30 Hours

Part-I

I. Choose the correct answer:

12×1=12

- 1) Unit of pressure is _____.
a) Pascal b) Nm^{-2} c) Poise d) both a and b
- 2) The process of converting a liquid into a solid is called _____.
a) solid b) liquid c) gas d) all the above
- 3) The electrification of two different bodies on rubbing is because of the transfer of _____.
a) neutrons b) protons
c) electrons d) protons and neutrons
- 4) Find the odd one out.
a) Harmonium b) Flute c) Nadaswaram d) Violin
- 5) Which of the following is known as azote?
a) Oxygen b) Nitrogen
c) Sulphur d) Carbondioxide
- 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) In Haber's process of producing ammonia _____ is used as a catalyst.
a) nitrogen b) hydrogen c) iron d) nickel
- 8) Base is a substance that gives _____ on dissolving in water.
a) OH^- b) H^+ c) OH d) H
- 9) Binominal Nomenclature was first introduced in the year
a) 1970 b) 1975 c) 1978 d) 1623
- 10) _____ is tough and thick white sheath that protects the inner parts of the eye.
a) Sclera b) Conjunctiva c) Cornea d) Iris
- 11) External ear (Pinna) is supported by
a) bone b) cartilage c) tendon d) capsule
- 12) _____ are the chemical substances, secreted by endocrine glands.
a) Hormones b) Enzymes c) Proteins d) Fatty acids

Part-II

II. Fill in the blanks:

5×1=5

- 13) A simple barometer was first constructed by _____.
- 14) If the angle of incidence is 45° , then the angle of reflection is _____.
- 15) _____ is used as semi-conductor.
- 16) _____ is prepared from a mould called Penicillium.
- 17) The largest cell is egg of an _____.

Part-III

III. True or False. If false, correct the statement:

5×1=5

- 18) Water can conduct electricity.
- 19) Decomposition of lead nitrate is an example for a chemical reaction caused by light.
- 20) Acids are corrosive in nature.
- 21) Pinus is a closed seeded plant.
- 22) Chicken pox is a communicable disease.

TVL8S.s.p.f

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Part-IV**IV. Match the following:****5×1=5**

- | | | |
|-----------------|---|----------------------|
| 23) Lubricants | - | James Chadwick |
| 24) Infrasonics | - | Testosterone |
| 25) Neutrons | - | Reduce friction |
| 26) Kuru | - | Frequency below 20Hz |
| 27) ICSH | - | Prion |

Part-V**V. Answer any ten. Q.No.40 is Compulsory:****10×2=20**

- 28) Define - mole.
- 29) State Snell's law of refraction.
- 30) What is electric circuit?
- 31) What is an ultrasonic sound?
- 32) What is the role of a Catalyst in a chemical reaction?
- 33) Give two examples for metalloids.
- 34) Write the names of the following compounds. a) CO b) N₂O c) NO₂ d) PCl₅
- 35) Define Boiling point.
- 36) What is an indicator?
- 37) What are antibiotics?
- 38) Write any two economic importance of fungi.
- 39) State different types of tissues.
- 40) An Iron ball requires 1000 J of heat to raise its temperature by 20°C. Calculate the heat capacity of the ball.
- 41) Differentiate tendon and ligament.
- 42) What is adolescence?

Part-VI**VI. Answer any eight. Q.No.51 is compulsory:****8×4=32**

- 43) State Pascal's law and mention its applications.
- 44) Give some uses of electroplating.
- 45) What are the hazards of noise pollution?
- 46) Write the uses of some non-metals.
- 47) State the importance of dissolved oxygen and carbon dioxide in water.
- 48) State the difference between acids and bases.
- 49) List out the uses of nitrogen.
- 50) Write a short note on bacteria and its structure.
- 51) A wave with a frequency of 500 Hz is traveling at a speed of 200 ms⁻¹. What is the wavelength?
- 52) List out the changes which occur during Puberty.
- 53) Write any five differences between Monocot and Dicot Plants.

PART-VII**VII. Answer all the questions:****3×7=21**

- 54) Explain the working of thermos flask.
What are the properties of sound? **(OR)**
- 55) What are the uses of acids?
Write the characteristics of Potable water. **(OR)**
- 56) Draw the structure of human eye and label its parts.
Write a short note on different types of muscles. **(OR)**