



## Standard 8

### SCIENCE

Time: 2.30 Hrs.

Marks: 100

#### I. Choose the best answer:

12×1=12

- 1) Closeness of two or more measured values called as \_\_\_\_\_.  
a) accuracy      b) precision      c) error      d) approximation
- 2) Unit of pressure is  
a) Pascal      b)  $\text{Nm}^{-2}$       c) Paise      d) Both a and b
- 3) If the focal length of a spherical mirror is 10 cm, what is the value of its radius of curvature?  
a) 10 cm      b) 5 cm      c) 20 cm      d) 15 cm
- 4) The process of converting a liquid into a solid is called \_\_\_\_\_.  
a) sublimation      b) condensation      c) freezing      d) deposition
- 5) Pencil lead contains  
a) graphite      b) diamond      c) aluminium      d) sulphur
- 6) Burning of paper is a \_\_\_\_\_ change.  
a) physical      b) chemical      c) physical and chemical      d) neutral
- 7) Aerated water contains  
a) air      b) oxygen      c) carbon di oxide      d) nitrogen
- 8) Which of the following is known as azote?  
a) Oxygen      b) Nitrogen      c) Sulphur      d) Carbon di oxide
- 9) Microorganisms are measured in \_\_\_\_\_.  
a) cm      b) mm      c) micron      d) meter
- 10) Pencillin is an antibiotic which is extracted from  
a) algae      b) fungi      c) bryophytes      d) pteridophytes
- 11) Maintenance of constant internal environment of the body is known as \_\_\_\_\_.  
a) homeostasis      b) homeophytes      c) homeokinesis      d) homeophilics
- 12) The process of air passing in and out the lungs is called \_\_\_\_\_.  
a) inhalation      b) exhalation      c) breathing      d) none of these

#### II. Fill in the blanks:

5×1=5

- 13) The solid angle is measured in \_\_\_\_\_.
- 14) If you apply heat energy, the temperature of a system will \_\_\_\_\_.
- 15) Nitrogen is \_\_\_\_\_ than air.
- 16) Microorganism can be seen with the help of a \_\_\_\_\_.
- 17) The largest cell is egg of an \_\_\_\_\_.

#### III. State True or False. If false correct the statement:

5×1=5

- 18) Friction is the only reason for the loss of energy.
- 19) The dimensions of a substance are increased if the temperature of the substance is decreased.
- 20) A chemical reaction is a temporary reaction.
- 21) Citrus canker is transmitted by insects.
- 22) Binomial name should contain more than two words.

V8S

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**IV. Match the following:**

5×1=5

- 23) Spoilage - Decomposition  
 24) Ozone - Biocatalyst  
 25) Tarnishing - Oxygen  
 26) Yeast - Chemical reaction  
 27) Calcium oxide - Food

**V. Answer very briefly ten questions:**

10×2=20

**Question Number 30 compulsory.**

- 28) Name the three scales of temperature.  
 29) State Pascal's Law.  
 30) The radius of curvature of a spherical mirror is 25 cm. Find its focal length.  
 31) Define specific heat capacity.  
 32) Why are bells made of metals?  
 33) Define a chemical reaction.  
 34) What is global warming?  
 35) Name the metals that are used in jewellery.  
 36) What are antibiotics?  
 37) Write any two economic importance of fungi.  
 38) Write a short notes on natural system of classification.  
 39) State different types of tissues.  
 40) Why the human eye is compared with Camera?

**VI. Answer briefly any 8 questions:**

8×4=32

- 41) a) Define - mole.  
 b) Convert  $\pi/4$  into degrees.  
 42) What are the differences between plane angle and solid angle?  
 43) Give any two applications of a concave and convex mirror.  
 44) With the help of a neat diagram, explain the working of a calorimeter.  
 45) Mention any four compounds and their uses.  
 46) Explain the environmental effects of chemical reactions.  
 47) What are the effects of acid rain? How can we prevent them?  
 48) How microorganisms are useful in the field of medicine?  
 49) Draw the outline of Bentham and Hookers' system of classification.  
 50) Deference between inhalation and exhalation.

**VII. Answer in detail:**

3×7=21

- 51) Describe an experiment to prove that the pressure in a liquid increases with depth.  
**(OR)**  
 Explain the working of a Periscope.  
 52) a) Write three properties of metalloids.  
 b) Tabulate the differences between metals and non-metals.  
**(OR)**  
 How does  $\text{CO}_2$  react with the following:  
 (a) Potassium (b) Lime water (c) Sodium hydroxide  
 53) Draw the structure of human eye and label the parts.  
**(OR)**  
 Write the differences between gymnosperms and angiosperms.