



## Standard 8

### SCIENCE

Time: 2.30 Hrs.

Marks: 100

**I. Choose the best answer:**
**12×1=12**

- 1) SI unit of temperature is \_\_\_\_\_.  
 a) celsius                      b) fahrenheit                      c) kelvin                      d) ampere
- 2) Pascal's law is used in \_\_\_\_\_.  
 a) hydraulic lift                      b) brake system  
 c) pressing heavy bundles                      d) all the above
- 3) Which of the following is known as azote?  
 a) Oxygen                      b) Nitrogen                      c) Sulphur                      d) Carbon dioxide
- 4) A form of non-metal which has high ductility is \_\_\_\_\_.  
 a) Nitrogen                      b) Oxygen                      c) Chlorine                      d) Carbon
- 5) \_\_\_\_\_ shows both living and non living characteristics.  
 a) Protozoa                      b) Virus                      c) Bacteria                      d) Fungi
- 6) \_\_\_\_\_ is tough and thick white sheath that protects the inner parts of the eye.  
 a) Sclera                      b) Conjunctiva                      c) Cornea                      d) Iris
- 7) In the absence of oxygen, glucose is broken down in to \_\_\_\_\_.  
 a) lactic acid                      b) citric acid                      c) acetic acid                      d) nitric acid
- 8) If the image and object distance is same then the object is placed at  
 a) infinity                      b) at F                      c) between F and P                      d) at C
- 9) Binomial Nomenclature was first introduced in the year  
 a) 1970                      b) 1975                      c) 1978                      d) 1623
- 10) \_\_\_\_\_ is / are responsible for global warming.  
 a) Carbon dioxide                      b) Methane  
 c) Chlorofluoro carbons                      d) All the above
- 11) The spherical mirror used as a rear view mirror in the vehicle is  
 a) Concave mirror                      b) Convex mirror  
 c) Plane mirror                      d) None of the above
- 12) Which one of the following systems of unit is the British system of unit?  
 a) CGS                      b) MKS                      c) FPS                      d) SI

**II. Fill in the blanks:**
**5×1=5**

- 13) The property of \_\_\_\_\_ of a liquid surface enables the water droplets to move upward in plants.
- 14) If the angle of incidence is 45°, then the angle of reflection is \_\_\_\_\_.
- 15) \_\_\_\_\_ is the enzyme responsible for browning of vegetables and fruits.
- 16) Binomial nomenclature was first introduced by \_\_\_\_\_.
- 17) \_\_\_\_\_ is used as semiconductor.

**III. State True or False. If false correct the statement:**
**5×1=5**

- 18) Quartz clocks are used in GPS devices.
- 19) Formation of slaked lime from quicklime is an endothermic reaction.
- 20) Rolling friction is slightly greater than the sliding friction.
- 21) Cellwall of fungi is made up of Chitin.
- 22) Yeast is used in the large scale production of alcohol.

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

- 23) a) Nitrogen fixing bacteria - Vaccine  
 b) Tuberculosis - Chemical reaction  
 c) Tarnishing - Lactobacillus acidophilus  
 d) Probiotics - Bacteria  
 e) Edward Jenner - Rhizobium

**V. Answer any 10 of the following. Question No. 28 is compulsory:  $10 \times 2 = 20$**

- 24) State the laws of reflection.
- 25) Why are heavy bags provided with broad straps?
- 26) What is global warming?
- 27) Why microorganisms are essential for agriculture?
- 28) Can you store pickle in an aluminium utensil? Give reason.
- 29) Seeds of gymnosperm plants are naked. Why?
- 30) **True (or) False: [If false give the correct statement]**
  - a) Human beings are warm blooded in nature.
  - b) Aqueous humour plays an important role in maintaining the shape of the eye.
- 31) Speed of light in air is  $3 \times 10^8 \text{ ms}^{-1}$  and the refractive index of a medium is 1.5. Find the speed of light in the medium.
- 32) a) Brown algae belongs to \_\_\_\_\_ class.  
b) Agar Agar is obtained from \_\_\_\_\_ algae.,
- 33) Write any two characters of dicotyledons.
- 34) Name three types of heat transfer.
- 35) Why does the fish die when it is taken out of water?

**VI. Answer any 8 of the following:**

**$8 \times 4 = 32$**

- 36) What is dry ice? What are its uses?
- 37) List out the base quantities with their units.
- 38) Write the four types of bacteria, based on their shape.
- 39) Mention the physical properties of oxygen.
- 40) State Pascal's law and mention its applications.
- 41) Define friction. Give two examples of the utility of friction in day to day life.
- 42) Tabulate the differences between metals and non-metals.
- 43) Write the differences between algae and fungi.
- 44) a) What is ductility?  
b) Why are bells made of metals?
- 45) Write any three economic importance of algae.

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**VII. Answer in detail: [Answer all the questions]**

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**$3 \times 7 = 21$**

- 46) a) Describe an experiment to prove that the pressure in a liquid increases with depth. **(OR)**  
b) Explain the working of thermos flask with diagram.
- 47) a) What are the effects of acid rain? How can we prevent them? **(OR)**  
b) Give reasons for the following:
  - i) Aluminium foils are used to wrap food items.
  - ii) Immersion rods for heating liquids are made up of metallic substances.
  - iii) Sodium and Potassium are stored in Kerosene.
  - iv) Mercury is used in thermometers.
- 48) a) Write any five differences between monocot and dicot plants. **(OR)**  
b) Draw the structure of human eye and label its parts.