

## Standard 8

## SCIENCE

Time: 2.30 Hrs.

Marks: 100

## I. Choose the best answer:

12×1=12

- 1) Luminous intensity is the intensity of \_\_\_\_\_.  
a) laser light      b) UV light      c) visible light      d) IR light
- 2) The electrification of two different bodies on rubbing is because of the transfer of \_\_\_\_\_.  
a) neutrons      b) protons  
c) electrons      d) protons and neutrons
- 3) Unit of pressure is \_\_\_\_\_.  
a) pascal      b)  $\text{Nm}^{-2}$       c) poise      d) both a and b
- 4) Pascal's law is used in \_\_\_\_\_.  
a) hydraulic lift      b) brake system  
c) pressing heavy bundles      d) all the above
- 5) Conduction is the way of heat transfer which take place in a \_\_\_\_\_.  
a) solid      b) liquid      c) gas      d) all of them
- 6) Cathode rays are made up of \_\_\_\_\_.  
a) neutral particles      b) positively charged particles  
c) negatively charged particles      d) none of the above
- 7) Androgen production is regulated by \_\_\_\_\_.  
a) GH hormone      b) LH hormone      c) TSH hormone      d) ACTH hormone
- 8) \_\_\_\_\_ joints are immovable.  
a) Shoulder and arm      b) Knee and joint  
c) Upper jaw and skull      d) Lower jaw and upper jaw
- 9) Plants that prevent soil erosion are \_\_\_\_\_.  
a) algae      b) fungi      c) bryophytes      d) pteridophytes
- 10) Aqueous solution of \_\_\_\_\_ conduct electricity.  
a) acid      b) base      c) salt      d) all of these
- 11) Aerated water contains \_\_\_\_\_.  
a) air      b) oxygen      c) carbon di oxide      d) nitrogen
- 12) \_\_\_\_\_ is a prokaryotic microorganisms.  
a) Virus      b) Algae      c) Fungi      d) Bacteria

## II. Fill in the blanks:

5×1=5

- 13) The infecting virus particle found outside the host cell is \_\_\_\_\_.
- 14) The place where two bones meet is termed as \_\_\_\_\_.
- 15) The symbol of tungsten is \_\_\_\_\_.
- 16) Electrolysis of brine solution gives \_\_\_\_\_ gases.
- 17) A thermostat is a device which maintains \_\_\_\_\_.

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

5×1=5

- 18) In a thermos flask, the silvered walls reflect and radiate the heat outside.
- 19) Electroscope is a device used to charge a body by induction.
- 20) A chemical reaction is a temporary reaction.
- 21) Bases are soapy to touch when they are dry.
- 22) Aqueous humour plays an important role in maintaining the shape of the eye.

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**IV. Match the following:****5×1=5**

- 23) i) Temperature - Blue green algae  
 ii) Cathode rays - Stomach ailments  
 iii) Hard water - Sir William Crookes  
 iv) Puberty - Measure of hotness or coldness  
 v) Cyanophyceae - Sexual maturity

**V. Answer any 10 of the following:****10×2=20**

- 24) Define - Ampere.  
 25) Name the three scales of temperature.  
 26) Define one atmosphere.  
 27) What is ductility?  
 28) Which non-metal is essential for our life and all living beings?  
 29) Define - Acid.  
 30) What is an Indicator?  
 31) What is dry ice? What are its uses?  
 32) What is fertilization?  
 33) What is skeleton?  
 34) Define metabolism.  
 35) Define Thallus.

**VI. Answer any 8 of the following:****8×4=32**

- 36) What do you mean by luminous intensity?  
 37) State Pascal's law and mention its applications.  
 38) State the laws of reflection.  
 39) What are the applications of conduction in our daily life?  
 40) What is electroplating?  
 41) Describe the structure and function of human ear.  
 42) Name the elements with the following symbols.  
 (a) Na (b) W (c) Ba (d) Al (e) U  
 43) Write the properties of anode rays.  
 44) Write the four types of bacteria, based on their shape.  
 45) Write any four characters of pteridophytes.

**VII. Answer all the questions in detail:****3×7=21**

- 46) a) Explain the working of a periscope.

**(OR)**

- b) Explain series and parallel circuit.

- 47) a) i) Write the chemical formula for the following compounds.

- (a) Aluminium sulphate (b) Silver nitrate  
 (c) Magnesium oxide (d) Barium chloride

- ii) Write the names of the following compounds.

- (a) CO (b) N<sub>2</sub>O (c) NO<sub>2</sub>

**(OR)**

- b) Explain the different ways by which water gets polluted.

- 48) a) Write a short note on common human diseases caused by micro organisms.

**(OR)**

- b) Write the names of medicinal plants and explain their uses.