



## Standard 8 SCIENCE

Time: 2.30 Hours

Marks: 100

**I. Choose the correct answer.****12x1=12**

- 1) Which one of the following systems of unit is the British system of unit  
a) CGS                      b) MKS                      c) FPS                      d) SI
- 2) Unit of pressure is  
a) Pascal                      b)  $\text{Nm}^{-2}$                       c) Poise                      d) Both a and b
- 3) Heat is a form of  
a) electrical energy                      b) gravitational energy  
c) thermal energy                      d) none of these
- 4) Sound waves travel very fast in  
a) air                      b) metals                      c) vacuum                      d) liquids
- 5) Symbol of Mercury is  
a) Ag                      b) Hg                      c) Au                      d) Pb
- 6) ..... undergoes rusting  
a) Tin                      b) Sodium                      c) Copper                      d) iron
- 7) Water changes to ice at  
a)  $0^{\circ}\text{C}$                       b)  $100^{\circ}\text{C}$                       c)  $102^{\circ}\text{C}$                       d)  $98^{\circ}\text{C}$
- 8) Red ant sting contains .....  
a) acetic acid                      b) sulphuric acid                      c) oxalic acid                      d) formic acid
- 9) Common cold in human is caused by .....  
a) Plasmodium                      b) Influenza                      c) Vibrio Cholera                      d) aphthovirus
- 10) Plants that prevent soil erosion are  
a) algae                      b) fungi  
c) bryophytes                      d) pteridophytes
- 11) The process of air passing in and out the lungs is called .....  
a) inhalation                      b) Exhalation                      c) breathing                      d) None of these
- 12) Adam's apple is the growth of the .....  
a) pharynx                      b) thyroid                      c) larynx                      d) parathyroid

**II. Fill in the blanks.****5x1=5**

- 13) Hydraulic lift works under the principle of .....
- 14) If the angle of incidence is  $45^{\circ}$  then the angle of reflection is .....
- 15) The process of conversion of iron into hydrated iron oxides is called as .....
- 16) ..... is the smallest particle of an element
- 17) ..... muscle makes pupil of eyes wider

**III. State True or False. If false correct the statement****5x1=5**

- 18) The number 4.582 can be rounded off as 4.58
- 19) In parallel circuit, current remains the same in all components
- 20) CFC is a pollutant
- 21) Disease causing microorganisms are called pathogens
- 22) Human beings are warm blooded in nature

**IV. Match the following.****5x1=5**

- |                                |                       |
|--------------------------------|-----------------------|
| 23) Law of conservation        | - Sir William Crookes |
| 24) Law of constant proportion | - James Chadwick      |
| 25) Cathode rays               | - Joseph Proust       |
| 26) Anode rays                 | - Lavoisier           |
| 27) Neutrons                   | - Goldstein           |



V8S

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**V. Answer any 10 of the following.****10x2=20**

- 28) State Pascal's law
- 29) Define - Mole
- 30) State Snell's law of refraction
- 31) Name three types of heat transfer
- 32) What is electric circuit?
- 33) What are the hazards of noise pollution?
- 34) What is global warming
- 35) State the law of conservation of mass
- 36) What are the methods of removing hardness of water?
- 37) Tabulate the difference between aerobic and anerobic respiration
- 38) How is the skeleton of a bird well-suited for flying
- 39) How is adolescence differ from childhood?
- 40) Write the names of any three protozoans

**VI. Answer any 8 of the following questions briefly.****8x4=32**

- 41) Explain how friction can be minimized.
- 42) Explain series and paraller circuit
- 43) Explain the working of a periscope
- 44) Write the symbols for the following elements
  - a) i) Oxygen ii) Gold iii) Calcium iv) Iron
  - b) Balance the following chemical equations
    - i)  $\text{Na} + \text{O}_2 \rightarrow \text{Na}_2\text{O}$  ii)  $\text{N}_2 + \text{H}_2 \rightarrow \text{NH}_3$
- 45) What is dry ice? What are it uses?
- 46) What are the uses of bases
- 47) Why microorganisms are essential for agriculture?
- 48) Write the difference between algae and fungi
- 49) Draw the structure of human eye and label its parts
- 50) **Difference between the following**
  - a) Movement and Locomotion
  - b) Pectoral and pelvic girdle

**VII. Answer in detail.****3x7=21**

- 51) a) Explain the working of thermos flask  
(OR)  
b) What steps should be taken to reduce the effect of noise pollutions?
  - 52) a) Tabulate any four difference between metals and non metals  
b) Name the elements with the following symbols  
i) Na ii) W iii) U iv) Ba v) Al vi) Cu  
(OR)  
b) Explain the neutralization reactions in our daily life.
  - 53) a) Write the names of medicinal plants and explain their uses  
(OR)  
b) Briefly describe the menstrual cycle.
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