

**Standard 8****SCIENCE**

Time: 1.30 Hrs.

Marks: 50

**I. Choose the most appropriate answer:****10×1=10**

- 1) The electrification of two different bodies on rubbing is because of the transfer of \_\_\_\_\_.
  - a) neutrons
  - b) protons
  - c) electrons
  - d) protons and neutrons
- 2) Fuse is \_\_\_\_\_.
  - a) a switch
  - b) a wire with low resistance
  - c) a wire with high resistance
  - d) a protective device for breaking an electric circuit
- 3) Sound waves travel very fast in \_\_\_\_\_.
  - a) air
  - b) metals
  - c) vacuum
  - d) liquids
- 4) 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
- 5) The same proportion of carbon and oxygen in the carbon dioxide obtained from different sources proves the law of \_\_\_\_\_.
  - a) reciprocal proportion
  - b) definite proportion
  - c) multiple proportion
  - d) conservation of mass
- 6) Which of the following parts of our body help us in movement?
  - i) Bones
  - ii) Skin
  - iii) Muscles
  - iv) Organs

**Choose the correct answer from the options below:**

  - a) (i) and (iii)
  - b) (ii) and (iv)
  - c) (i) and (iv)
  - d) (iii) and (ii)
- 7) \_\_\_\_\_ joints are immovable.
  - a) Shoulder and arm
  - b) Knee and joint
  - c) Upper jaw and skull
  - d) Lower jaw and upper jaw
- 8) Which one of the following categories of vertebrae are correctly numbered?
  - a) Cervical-7
  - b) Thoracic-10
  - c) Lumbar-4
  - d) Sacral-4
- 9) Adolescence is the period of life between \_\_\_\_\_ years of age.
  - a) 10 to 16
  - b) 11 to 17
  - c) 13 to 19
  - d) 11 to 20
- 10) \_\_\_\_\_ are the chemical substance, secreted by endocrine glands.
  - a) Hormones
  - b) Enzyme
  - c) Proteins
  - d) Fatty acids

**II. Fill in the blanks:****5×1=5**

- 11) \_\_\_\_\_ is a device that protects building from lightning strike.
- 12) Sound travels in the form of \_\_\_\_\_.
- 13) \_\_\_\_\_ is a negatively charged particle. [Electron / Proton]
- 14) The place where two bones meet is termed as \_\_\_\_\_.
- 15) The male and the female gamete fuse together and form \_\_\_\_\_.

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**III. Match it:****4×1=4**

- |                  |   |                    |
|------------------|---|--------------------|
| 16) Puberty      | - | Testosterone       |
| 17) Adam's apple | - | Muscle development |
| 18) Androgen     | - | Sexual maturity    |
| 19) ICSH         | - | Change in voice    |

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

- 20) Water can conduct electricity.
- 21) Electroscope is a device used to charge a body by induction.
- 22) If the thickness of a vibrating string is increased, its pitch increases.
- 23) There is a sudden increase in the height of both boys and girls during puberty.
- 24) Using clean toilets for defecation is a good practice.

**V. Answer any 8 questions shortly:****8×2=16**

- 25) What is an ultrasonic sound?
- 26) A sound wave travels 2000m in 8s. What is the velocity of the sound?
- 27) What is electric circuit?
- 28) Give some uses of electroplating.
- 29) State the law of conservation of mass.
- 30) What is a chemical equation?
- 31) Write the names of the following compounds:  
(a) CO      (b) N<sub>2</sub>O      (c) NO<sub>2</sub>      (d) PCl<sub>5</sub>
- 32) What are the functions of skeleton in human body?
- 33) What is skeleton?
- 34) Differentiate tendon and ligament.
- 35) List out the changes which occur during puberty.
- 36) What is fertilization?

**VI. Answer any 2 questions in detail:****2×5=10**

- 37) How lightning takes place?
  - 38) Write the chemical formula for the following compounds:  
(a) Aluminium sulphate      (b) Silver nitrate  
(c) Magnesium oxide      (d) Barium chloride
  - 39) Name the different types of joints. Give one example for each type.
  - 40) What are the physical changes that occur in boys and girls during adolescence?
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