

THE END

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## COMMON HALF YEARLY EXAMINATION - 2024

Standard - VIII

SCIENCE

*[Signature]*  
20/12/24

Marks:100

15x1=15

Time: 2.30 hrs

I Choose the correct answer.

1. SI unit of temperature is \_\_\_\_\_  
a) celsius      b) fahrenheit      c) kelvin      d) ampere
2. Conduction is the way of heat transfer which takes place in a \_\_\_\_\_  
a) solid      b) liquid      c) gas      d) All of them
3. The spherical mirror with a reflecting surface curved inward is called  
a) convex mirror      b) concave mirror      c) curved mirror      d) None of the above
4. When an ebonite rod is rubbed with fur, the charge acquired by the fur is  
a) negative      b) positive      c) partly positive and partly negative      d) None of these
5. The range of audible frequency for the human ear is  
a) 2 Hz to 2000 Hz      b) 20 Hz to 2000 Hz      c) 20 Hz to 20,000 Hz      d) 200 Hz to 20,000 Hz
6. \_\_\_\_\_ undergoes rusting.  
a) Tin      b) Sodium      c) Copper      d) Iron
7. Aerated water contains  
a) air      b) oxygen      c) carbon dioxide      d) nitrogen
8. 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
9. The gas collected at the cathode on electrolysis of water is  
a) oxygen      b) hydrogen      c) nitrogen      d) carbon dioxide
10. We brush our teeth with tooth paste because it is \_\_\_\_\_ in nature.  
a) basic      b) acidic      c) Both a and b      d) None of these
11. Common cold in human is caused by \_\_\_\_\_  
a) plasmodium      b) influenza      c) vibrio cholera      d) aphthovirus
12. An example for colonial form of algae is  
a) Oscillatoria      b) Nostoc      c) Volvox      d) Chlorella
13. The process of air passing in and out the lungs is called \_\_\_\_\_  
a) inhalation      b) exhalation      c) breathing      d) None of these
14. Cockroach moves with the help of its  
a) leg      b) bone      c) muscular foot      d) whole body
15. 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

5x1=5

II Fill in the blanks

16. Hydraulic lift works under the principle of \_\_\_\_\_
17. Sound travels in the form of \_\_\_\_\_
18. Water is colourless, odourless and \_\_\_\_\_
19. The word 'Taxonomy' is derived from \_\_\_\_\_
20. Iron deficiency leads to \_\_\_\_\_

10x1=10

III State true or false. If false, correct the statement.

21. Quartz clocks are used in GPS devices.
22. If one coulomb of charge is flowing in one minute, it is called 'ampere'.
23. Water can conduct electricity.
24. Sea water is suitable for Irrigation as it contains dissolved salts.
25. CFC is a pollutant.
26. Acids are bitter in taste.

(2)

VIII Science

27. Chicken pox is a communicable disease.
28. Human beings are warm blooded in nature.
29. There are 12 pairs of ribs in human body.
30. Using clean toilets for defecation is a good practice.

**IV Match the following:**

10x1=10

- |                   |   |                                  |
|-------------------|---|----------------------------------|
| 31. Conduction    | - | Liquid                           |
| 32. Convection    | - | Gas to liquid                    |
| 33. Radiation     | - | Solid to gas                     |
| 34. Sublimation   | - | Vacuum                           |
| 35. Condensation  | - | solid                            |
| 36. Carbohydrates | - | CO <sub>2</sub> , Water and Heat |
| 37. Glucose       | - | Amino acid                       |
| 38. Protein       | - | Glucose                          |
| 39. Amino acids   | - | Cholesterol and other steroid    |
| 40. Fatty acids   | - | Enzymes, hormone, protein        |

**V Answer any 15 of the following questions:-**

15x2=30

41. What is measurement?
42. Why are heavy bags provided with broad straps?
43. State the laws of reflection.
44. What is conduction?
45. What is electroplating?
46. What is an ultrasonic sound?
47. Define a chemical reaction.
48. Write the chemical formula for the following compounds.  
a) Aluminium sulphate    b) Silver nitrate    c) Magnesium oxide    d) Barium chloride
49. What is global warming?
50. State the law of conservation of mass.
51. What are the methods of removing hardness of water?
52. State the difference between acids and bases.
53. Write any two economic importance of fungi.
54. Define - Thallus.
55. Define - Metabolism.
56. What is ligament?
57. What is fertilization?
58. Tabulate the differences between aerobic and anaerobic respiration.
59. Write any two characters of dicotyledons.
60. Differentiate between the following.  
a) Movement and Locomotion

**VI Answer in Detail. Answer any six of the following questions.**

6x5=30

61. List out the base quantities with their units.
62. Explain the working of a periscope.
63. Explain the working of thermos flask.
64. Tabulate the differences between metals and non-metals.
65. Find the valency of the element which is underlined in the following formula.  
a) NaCl    b) CO<sub>2</sub>    c) Al(PO<sub>4</sub>)    d) Ba(NO<sub>3</sub>)<sub>2</sub>    e) CaCl<sub>2</sub>
66. What are the uses of acids?
67. Write the names of medicinal plants and explain their uses.
68. Write the four types of bacteria, based on their shape.
69. Draw the structure of human eye and label its parts.
70. Explain the nutritional needs of adolescence in brief.

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