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COMMON HALFYEARLY EXAM - 2024**Standard - VIII Sivagangai District****Time : 2.30 hrs****SCIENCE****Marks: 100****Part - I****I. Choose the correct answer:-****12×1=12**

- 1) Luminous Intensity is the intensity of _____
a) laser light b) UV light c) Visible light d) IR light
- 2) 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
- 3) Conduction is the way of heat transfer which takes place in a _____
a) Solid b) Liquid c) Gas d) All of them
- 4) Find the odd one out
a) Harmonium b) Flute c) Nadaswaram d) Violin
- 5) Brine is a concentrated solution of _____
a) Sodium sulphate b) Sodium chloride c) Calcium chloride d) Sodium bromide
- 6) Which of the following is true about oxygen?
a) Completely burning gas b) Partially burning gas
c) Doesn't support burning d) Supports burning
- 7) In Water hydrogen and oxygen are combined in the ratio of _____
a) 1:8 b) 8:1 c) 2:3 d) 1:3
- 8) Permanent hardness of water is due to the presence of _____
a) Sulphates and chlorides b) Dust particles
c) Carbonates and bicarbonates d) Other soluble particles
- 9) Magnesium hydroxides are used for treating _____
a) Acidity b) Head pain c) Teeth decay d) None of these
- 10) Common cold in human is caused by _____
a) Plasmodium b) Influenza c) Vibrio cholera d) Aphthovirus
- 11) _____ is tough and thick white sheet that protects the inner parts of the eyes.
a) Sclera b) Conjunctiva c) Cornea d) Iris
- 12) Which one of the following categories of vertebrae are correctly numbered?
a) Cervical-7 b) Thoracic-10 c) Lumbar-4 d) Sacral-4

II. Fill in the blanks:-**5×1=5**

- 13) Hydraulic lift works under the principle of _____
- 14) _____ has a thin metallic filament that melts and breaks the connection when the circuit is overheated.
- 15) _____ is used as semiconductor.
- 16) Agar Agar is obtained from _____ algae
- 17) Milk secretion during lactation is controlled by _____ hormone.

III. State true or false. If false, correct the statement:**5×1=5**

- 18) A body will sink if the weight of the body is greater than the buoyant force.
- 19) In parallel circuit, current remains the same in all components.
- 20) Citrus canker is transmitted by insects.
- 21) Human beings are warm blooded in nature.
- 22) The release of ovum from the uterus is called ovulation.

IV. Match the following:-**5×1=5**

- | | | |
|--------------|---|-------------------------------|
| 23) Nitrogen | - | Respiration in living animals |
| 24) Oxygen | - | Fertilizer |



S**(2)****VIII SCIENCE**

- 25) Carbon dioxide - Ammonia
 26) Dry rice - Fire extinguisher
 27) Haber's process - Refrigerator

V. Answer any 10 of the following: (Question number 42 is compulsory) $10 \times 2 = 20$

- 28) What are the differences between plane angle and solid angle.
 29) How does surface tension help a plant?
 30) Name three types of heat transfer.
 31) What is electric circuit?
 32) Mention few measures to be taken to reduce the effect of noise pollution.
 33) Write the symbols for the following elements
 a) Oxygen b) Gold c) Calcium d) Iron
 34) Mention the various conditions required for a chemical reaction to occur.
 35) State the law of conservation of mass.
 36) Define specific heat capacity.
 37) What is the neutralization reaction?
 38) How do disease causing microorganisms enter into human beings.
 39) Seeds of gymnosperm plants are naked. Why?
 40) Define metabolism.
 41) What are antagonistic muscles? Give one example.
 42) If two plane mirrors are inclined to each other at an angle of 45° . Find the number of images formed.

VI. Answer any 8 of the following:- **$8 \times 4 = 32$**

- 43) List out the base quantities with their units.
 44) Explain the working of a periscope.
 45) Write a note on thermostat.
 46) Explain series and parallel circuit.
 47) Mention any four compounds and their uses.
 48) List out the uses of nitrogen.
 49) Write the chemical formula for the following compounds.
 a) Aluminium sulphate b) Silver nitrate c) Magnesium oxide d) Barium chloride
 50) What are the methods of removing hardness of water?
 51) How can we improve the beneficial bacterial count in human beings.
 52) Write the differences between algae and fungi.
 53) Draw the structure of human eye and label its parts.
 54) What are the functions of skeleton in human body?

VII. Answer any one of the following from each part. **$3 \times 7 = 21$** **Part - I**

- 55) Describe an experiment to prove that the pressure in a liquid increases with depth.

[or]

- 56) Describe the structure and function of the human ear.

Part - II

- 57) Explain the environmental effects of chemical reactions.

[or]

- 58) a) State the difference between acids and bases.
 b) Give any two uses of acids.

Part - III

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

[or]

- 60) Explain the nutritional needs of adolescence in brief.
