

HSS

HALF YEARLY EXAMINATION 2024

8 - Std

SCIENCE

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Time : 3.00 Hrs

Marks : 100

I Choose the best answer.

15 x 1 = 15

1. SI unit of temperature is _____
a) Celcius b) Fahrenheit c) Kelvin d) Ampere
2. Pascal's law is used in
a) hydraulic lift b) brake system c) pressing heavy bundles d) All the above
3. The Spherical mirror used as a rear view mirror in the vehicle is
a) Concave mirror b) Convex mirror c) Plane mirror d) None of the above
4. Heat is a form of _____
a) electrical energy b) gravitational energy c) thermal energy d) none of these
5. 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
6. Find the odd one out
a) Harmonium b) Flute c) Nadaswaram d) Violin
7. A form of non-metal which has high ductility is
a) nitrogen b) oxygen c) chlorine d) carbon
8. Burning of Paper is a _____ change.
a) physical b) chemical c) physical and chemical d) neutral
- 9) which of the following is known as azote ?
a) Oxygen b) Nitrogen c) Sulphur d) Carbon di.oxide
- 10) 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
- 11) The gas collected at the cathode on electrolysis of water is
a) oxygen b) hydrogen c) nitrogen d) carbon di oxide
- 12) common cold in human is caused by _____
a) plasmodium b) influenza c) vibrocholera d) aphthovirus
- 13) The first land plants are _____
a) bryophytes b) pteridophytes c) gymnosperms. d) angiosperms
- 14) in the absence of oxygen glucose is broken down into
a) Lactic acid b) Citric acid c) Acetic acid d) Nitric acid
- 15) Cockroach moves with the help of its
a) leg b) bone c) muscular foot d) whole body

II Fill in the blanks:

10 x 1 = 10

- 16) _____ is used to measure electric current.
- 17) A Calorimeter is a device used to measure the _____.
- 18) The body which has lost electrons becomes _____.
- 19) Sound travels in the form _____.
- 20) Photosynthesis is a chemical reaction that takes place in the presence of _____.
- 21) Dry ice is used as a _____.
- 22) The density of water is maximum at _____.
- 23) Agar Agar is obtained from _____ algae.
- 24) The place where two bones meet is termed as _____.
- 25) Iron deficiency leads to _____.

III Match the following.

10 x 1 = 10

- | | |
|---------------------------------|---------------------------------|
| a) 26) Barometer | - Fertilizer |
| 27) Sublimation | - Lavoisier |
| 28) Tungsten | - Atmospheric pressure |
| 29) Nitrogen | - Making the filament of a bulb |
| 30) Law of conservation of mass | - Solid to gas. |

- b) 31) Edward Jenner - Sexual Maturity
 32) protein - Change in voice
 33) kuru - Vaccine
 34) puberty - Aminoacid
 35) Adam's apple - Prions

IV State true or false . If false correct the statement.

5 x 1 = 5

- 36) Force acting on a given area is called pressure.
 37) Conduction is the process by which the thermal energy flows in solids.
 38) Sea water is suitable for irrigation as it contains dissolved salts.
 39) Human beings are warm blooded in nature
 40) Cardiac muscle is a voluntary muscle.

V Answer any fifteen questions:

15 x 2 = 30

- 41) Name the three scales of temperature?
 42) Which has greater viscosity, oil or honey. Why?
 43) Define Focal length.
 44) What are the applications of conduction in our daily life
 45) What is electric circuit.
 46) What is Vibration?
 47) What is an ultrasonic sound?
 48) Give the examples for metalloids.

49) Fill in the blanks:

- i) The symbol of tungsten is _____.
 ii) _____ is used as semi conductor.
 50) Define a chemical reaction.
 51) What is Pollution?
 52) What is dry ice? What are its uses?
 53) State the law of conservation of mass.
 54) What are antibiotics?
 55) i) Who discovered Penicillin? ii) Which diseases can be prevented by vaccination.
 56) Define Thallus.
 57) Define Metabolism
 58) Define Prokaryotic cell
 59) What is Cranium
 60) Define - Alchemy

VI Answer any Five questions:-

5 x 3 = 15

- 61) What are the differences between plane angle and solid angle?
 62) State Pascal Law's Application.
 63) Name the elements with the following symbols. a) Na b) Al c) U
 64) Write the names of the following compounds. a) CO b) N₂O c) NO₂
 65) Write the names of any three protozoans.

- 66) Amoeba Diagram:

Write any three parts in Amoeba diagram.

Amoeba



- 67) Tabulate the difference between aerobic and anaerobic respiration.
 68) Draw the diagram of human eye and label any three parts.

VII) Write details:

3 X 5 = 15

69. i) What is dispersion? Explain in detail. (OR)
 ii) With the help of a neat diagram, Explain the working of a calorimeter
 70. i) What are the effects of acid rain? How can we prevent them? (OR)
 ii) What is electrolysis? Explain the electrolysis of water?
 71. i) Differentiate between inhalation and exhalation. (OR)
 ii) Write a short note on bacteria and its structure.