

8 - Std**HALF YEARLY EXAMINATION - 2025**

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Time : 2.30 Hrs

HSL

SCIENCE

Marks : 100

I Choose the correct answer.

10 X 1 = 10

- Electric current is a quantity.
a) base b) supplementary c) derived d) professional
- Which of the following has curved reflecting surface?
a) plane mirrors b) spherical mirrors c) simple mirrors d) none of the above
- When an ebonite rod is rubbed with fur the charge acquired by the fur is
a) Negative b) positive
c) partially positive and partially negative d) none of these
- is / are responsible for global warming
a) Carbon di oxide b) Methane c) Chlorofluorocarbons
d) Carbon di oxide Methane, Chlorofluorocarbons
- 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
- Aqueous solutions of conduct electricity
a) acid b) base c) salt d) All of these
- Plants that prevent soil erosion are
a) algae b) fungi c) bryophytes d) pteridophytes
- In the absence of oxygen glucose is broken down into
a) lactic acid b) citric acid c) acetic acid d) nitric acid
- Which one of the following organisms lack muscles and skeleton for movement?
a) Dog b) Snail c) Earthworm d) Human beings
- intake needs to be increased to prevent osteoporosis in later life.
a) Potassium b) Phosphorus c) Iron d) Calcium

II Fill in the blanks.

10 x 1 = 10

- The property of of a liquid surface enables the water droplets to move upward in plants.
- The spherical mirror used in a beauty parlour as make-up mirror is
- A calorimeter is a device used to measure the
- Sound is produced by
- is the enzyme responsible for browning of vegetable and fruits.
- is called as vital life.
- Micro organisms can be seen with the help of
- Reticulate Venation is present in plants.
- The size of the cells are measured in units of
- A structure which provides rigid frame work to the body is called

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

10 x 1 = 10

- One atmosphere is equivalent to 1,00,000 newton force acting on one square meter.
- In a thermos flask, the silvered walls reflect and radiate the heat outside.
- Water can conduct electricity.
- Formation of slaked lime from quick lime is an endothermic reaction.
- Sea water is suitable for irrigation as it contains dissolved salts.
- Acids are bitter in taste.
- In polypetalae, the petals are free.
- The larynx has fold of tissue which vibrate with the passage of air to produce sound.
- All bases are alkalis.
- Skull in human consists of 22 bones.

HSL 8 SCIENCE (E.M) PG. - 1

IV (i) Match the following.

5 x 1 = 5

- | | | |
|-------------------------|---|-------------------------|
| 31. Convex mirror | - | Radio telescopes |
| 32. Parabolic mirror | - | Rear - View mirror |
| 33. Snell's law | - | Kaleidoscope |
| 34. Dispersion of light | - | $\sin i / \sin r = \mu$ |
| 35. Refractive index | - | Rainbow |

(ii) Match the following.

5 x 1 = 5

- | | | |
|-------------------|---|-------------------|
| 36. Spoilage | - | Decomposition |
| 37. Ozone | - | Biocatalyst |
| 38. Tarnishing | - | Oxygen |
| 39. Yeast | - | Chemical reaction |
| 40. Calcium oxide | - | Food |

V Answer very briefly. (any 15 questions).

15 x 2 = 30

41. Define Amphere.
42. Name two instruments which help to measure the pressure of a fluid.
43. State Snell's law of refraction.
44. Name three types of heat transfer?
45. What is electroplating?
46. What is vibration?
47. Give an example to show that light travels faster than sound?
48. Which non - metal is essential for our life and all living beings?
49. Give two examples for metalloids.
50. What is the role of a catalyst in a chemical reaction?
51. What is global warming?
52. State the law of conservation of mass.
53. Name the gas evolved at cathode and anode when water is electrolysed. State their ratio by volume.
54. What is an indicator?
55. Write the names of any three protozoans.
56. What are pathogens?
57. Define - Thallus.
58. What is cell differentiation?
59. What is skeleton?
60. What is fertilization?

VI Answer briefly. (Any five).

5 x 3 = 15

61. Mention any three ways of minimising friction.
62. What are the effect of heat?
63. What are the hazards of noise pollution?
64. Name the elements with the following symbols. a) Na b) W c) Ba d) Al e) u
65. What is dry ice? What are its uses?
66. Write any four physical properties of acids?
67. How many classes are there in bryophytes? What are they?
68. Tabulate the differences between aerobic and anaerobic respiration.

VII Answer in detail.

3 x 5 = 15

69. Write a note on thermostat. **(OR)**
What steps should be taken to reduce the effect of noise pollution?
70. Name the compound produces when the following substances burn in oxygen.
a) Carbon b) Sulphur c) Phosphorous d) Magnesium e) iron. **(OR)**
What are the uses of bases?
71. Write a short note on bacteria and its structure. **(OR)**
Differentiate between inhalation and exhalation.