

HALF YEARLY EXAMINATION - 2023

Class : 8

Time : 2-30 Hours

SCIENCE

Reg.No

Marks : 100

I) Choose the Correct Answer.

10X1=10

- Electric current is a quantity
a) base b) Supplementary c) derived d) Professional
- If the focal length of a spherical mirror is 10cm, what is the value of its radius of curvature?
a) 10 cm b) 5cm c) 20cm d) 15 cm
- Find the odd one out.
a) Harmonium b) Flute c) Nadaswaram d) Violin
- The non - metal which conducts electric current is
a) carbon b) oxygen c) Aluminium d) Sulphur
- Aerated water contains
a) Air b) Oxygen c) Carbon dioxide d) nitrogen
- Water changes to ice at
a) 0°C b) 100°C c) 102°C d) 98°C
- is a prokaryotic micro organisms.
a) virus b) Algae c) Fungi d) Bacteria
- Osmosis is the movement of water molecules from
a) higher concentration to a region of lower concentration
b) lower concentration to a region of higher concentration
c) Both of these d) None of these
- Adam's apple is the growth of the
a) Pharynx b) thyroid c) larynx d) parathyroid
- Red ant sting contains
a) acetic acid b) sulphuric acid c) oxalic acid d) formic acid

II) Fill in the blanks

10x1=10

- Pressure of a liquid column with the depth of the column.
- Nature of the images formed by a convex mirror is
- is defined as the amount of heat required to raise the temperature of 1 kg of a substance by 1°C.
- Three bulbs are connected end to end from the battery. This connection is called
- Iron object undergo rusting when exposed to and
- is the smallest particle of an element.
- Turmeric is used as a
- Reticulate venation is present in plants.
- The largest cell is egg of an
- Muscle makes pupil of eyes wider.

III) State true or False. If false, Correct the statement.

10x1=10

- Quartz clocks are used in GPS devices.
- Force acting on a given area is called pressure.
- Convection is the process by which the thermal energy flows in solids
- Water can conduct electricity
- Formation of slaked lime from quicklime is an endothermic reaction.
- Sea water is suitable for irrigation as it contains dissolved salts.

27. Acids are bitter in taste
28. Chicken pox is a communicable disease.
29. Pinus is a closed seeded plant
30. Human beings are warm blooded in nature.

IV) Match the following .

10X1=10

- | | |
|---------------------------|---------------------------------|
| 31. Ultrasonics | - Frequency below 20 HZ |
| 32. Speed of sound in air | - Frequency more than 20000 HZ |
| 33. Infrasonics | - 330 ms-1 |
| 34. Atom | - Atoms of different kinds |
| 35. Element | - Smallest unit of a substance |
| 36. Compound | - Atoms of same kind |
| 37. Carbohydrates | - Amino acid |
| 38. Protein | - Glucose |
| 39. Amino acids | - Cholesterol and other steroid |
| 40. Fatty acids | - Enzymes, hormone, protein |

V) Answer any 15 questions.

15X2=30

41. Name the three scales of temperature
42. What do you mean by luminous intensity?
43. Why are heavy bags provided with broad straps?
44. Define focal length
45. What is conduction?
46. How charges are produced by friction?
47. Give two differences between music and noise.
48. Tabulate the differences between metals and non-metals.
49. What is pollution?
50. List out the uses of nitrogen.
51. State the law of constant proportions.
52. Give reasons -sea water is unfit for drinking
53. Acid - define
54. What are pathogens?
55. Write any two economic importance of fungi.
56. State different types of tissues.
57. What are antagonistic muscles? Give one example.
58. What is adolescence?
59. What is fertilization?
60. How is the skeleton of a bird well -suited for flying?

VI) Answer any 6 questions.

6X5=30

61. List out the base quantities with their units.
62. What is reflection? write a short note on regular and irregular reflection
63. Explain series and parallel circuit
64. What are the effects of acid rain ? How Can we prevent them?
65. What is electrolysis? Explain the electrolysis of water.
66. What are the uses of acids ?
67. Write a short notes on bacteria and its structure
68. Write the names of medicinal plants and explain their uses.
69. Differentiate between inhalation and exhalation.
70. Write a short note on different types of muscles.
