

HALF YEARLY EXAMINATION - 2023

Class : 10

Time : 3-00 Hours

SCIENCE

Reg.No

Marks : 75

PART - I

Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer. 12X1=12

1. Which is a incorrect statement ?
 - a) The linear momentum measures the impact of a force on a body
 - b) Impulse is equal to the magnitude of change in momentum
 - c) Newton's law of gravitation helps to predict the path of the astronomical bodies.
 - d) Weight of a body is greater of the polar region and less at the equator
2. Kilowatt hour is the unit of
 - a) Conductivity
 - b) resistivity
 - c) electrical power
 - d) electrical energy
3. In which of the following reaction, the atomic number decreases by 2 of the daughter nucleus
 - a) gamma decay
 - b) Beta decay
 - c) Alphadecay
 - d) Neutron decay
4. The Correct order of decreasing ionisation energy of the following elements.
 - a) CS>Rb>K>Na>Li
 - b) Li>Na>K>Rb>Cs
 - c) K>Na>Li>Rb>Cs
 - d) Rb>K>Na>Li>Cs
5. Chemical formula of rust is
 - a) $FeO \cdot xH_2O$
 - b) $FeO_4 \cdot xH_2O$
 - c) $Fe_2O_3 \cdot xH_2O$
 - d) FeO
6. Solubility of Nacl in 100ml water is 36 g If 25 g of salt is dissolved in 100 ml of water, how much more salt is required for saturation
 - a) 12g
 - b) 11g
 - c) 16g
 - d) 20g
7. The molecular formula of an open chain organic compound is C_3H_4 The class of the compound is
 - a) Alkane
 - b) Alkyne
 - c) Alkene
 - d) Alcohol
8. The essential parts of a flower are
 - a) Calyx and corolla
 - b) Corolla and Gynoecium
 - c) Calyx and Androecium
 - d) Androecium and Gynoecium
9. The body of leech has
 - a) 23 segments
 - b) 33 segments
 - c) 38 segments
 - d) 30 segments
10. LH is secreted by
 - a) Adrenal gland
 - b) Thyroid gland
 - c) Anterior pituitary
 - d) Hypothalamus
11. The best way of direct dating fossils of recent origin is by
 - a) Radio-Carbon method
 - b) Postassium-argon method
 - c) Uranium lead method
 - d) Both (a) and (c)
12. Which type of cancer affects lymph nodes and spleen?
 - a) Carcinoma
 - b) Sarcoma
 - c) Leukemia
 - d) Lymphoma

PART - II

Answer any 7 questions (Q.No.22 is compulsory)

7x2=14

13. State the universal law of gravitation.
14. What are the causes of Hypermeteropia?
15. Name three animals, Which can hear ultrasonic Vibrations.
16. Differentiate : Atoms and molecules.

