

COMMON ANNUAL EXAMINATION - 2023

C

Standard VIII

Reg No.

SCIENCE

Time : 2.30 hrs

Part - I

Marks : 100

6 x 1 = 6

I. Choose the correct answer:

1. The SI unit of Temperature is _____.
 a) Celsius b) Fahrenheit c) Kelvin d) Ampere
2. _____ undergoes rusting
 a) tin b) sodium c) copper d) iron
3. Which is known as syn gas?
 a) Marsh gas b) Water gas c) Producer gas d) Coal gas
4. _____ shows both living and non-living characteristics.
 a) Protozoa b) Virus c) Bacteria d) Fungi
5. Wild life Protection Act was implemented in _____.
 a) 1986 b) 1972 c) 1973 d) 1971*
6. _____ is called as Red Planet.
 a) Mercury b) Venus c) Earth d) Mars

II. Fill in the blanks :

1. A simple barometer was first constructed by _____.
2. Dry ice is used as a _____.
3. The boiling point of water is _____.
4. The largest cell is egg of an _____.
5. _____ seeds transfer their unique characteristics.
6. _____ is known as marsh gas.

6 x 1 = 6

III. Match - I

- | | | |
|--------------------|---|-------------------------------|
| 1. Barometer | - | Liquid |
| 2. Carbon-di-oxide | - | For making wires |
| 3. Copper | - | Frequency more than 20,000 Hz |
| 4. Ultrasonics | - | Fire extinguisher |
| 5. Convection | - | Atmospheric pressure |

10 x 1 = 10

Match - II

- | | | |
|----------------------|---|-------------|
| 1. Edward Jenner | - | Glucose |
| 2. Rhodophyceae | - | Neem leaves |
| 3. Carbohydrates | - | Red algae |
| 4. Bio-repellants | - | Gujarat |
| 5. Gir National Park | - | Vaccine |

IV. State True or False. If false, correct the statement.

6 x 1 = 6

1. Temperature is a measure of total kinetic energy of the particles in a system.
2. Liquid pressure decreases with the decrease of depth.
3. CFC is a pollutant.
4. Acids are corrosive in nature.
5. There are 12 pairs of ribs in human body.
6. Cell wall of fungi is made up of chitin.

Part - II

I. Complete the analogy :

2 x 1 = 2

1. Knot in a thread _____ friction.
2. Ball bearing _____ friction.

(2)

VIII Science

15 x 2 = 30

II. Answer very briefly : (Q.No.19 is compulsory) (any 15)

1. Name the scales of temperature.
2. Define One calorie.
3. What is electric circuit.
4. Write any two hazards of noise pollution.
5. Name the Indians worked in NASA.
6. Write the symbols for the following elements.
 - a) Oxygen
 - b) Calcium
 - c) Cadmium
 - d) Iron
7. What is chemical equation?
8. Define Potable water.
9. Name the places in Tamilnadu Harnessing wind energy from Wind mill.
10. What is neutralization reaction?
11. Give two examples for metalloids.
12. Name two instruments which help to measure the pressure of a liquid.
13. Write the four types of bacteria based on their shape.
14. Mention the functions of Alveoli.
15. How is the skeleton of a bird well-suited for flying?
16. List out the changes that occur during puberty.
17. What is crop rotation?
18. Name two endangered animals.
19. The radius of curvature of a spherical mirror is 25 cm. Find its focal length.

Part - III

Answer briefly any 5 of the following.

5 x 4 = 20

(Q.No.5 is compulsory)

1. Name the compounds produced when the following substances burn in oxygen.
 - a) carbon
 - b) sulphur
 - c) magnesium
 - d) sodium
2. Find the valency of the element which is underlined in the following formula :
 - a) NaCl
 - b) CO₂
 - c) Al(PO₄)
 - d) CaCl₂
3. Balance the following chemical equations.
 - 1) $\text{Na} + \text{O}_2 \rightarrow \text{Na}_2\text{O}$
 - 2) $\text{Ca} + \text{N}_2 \rightarrow \text{Ca}_3\text{N}_2$
 - 3) $\text{N}_2 + \text{H}_2 \rightarrow \text{NH}_3$
 - 4) $\text{Pb}(\text{NO}_3)_2 \rightarrow \text{PbO} + \text{NO}_2 + \text{O}_2$
4. State the differences between acids and bases.
5. Draw the structure of human eye and label its parts.
6. i) What is IUCN? ii) What is PBR?
7. The average weight of an Elephant is 4000 N. The surface area of the sole of its foot is 0.1 m². Calculate the pressure exerted by one foot of an Elephant.

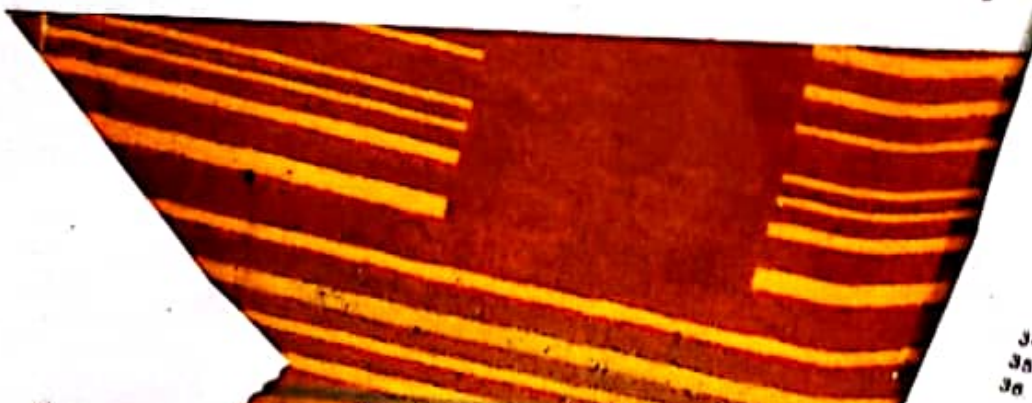
Part - IV

Answer in detail :

4 x 5 = 20

1. a) List out the base quantities with their units. (OR)
- b) List out the uses of magnets.
2. a) Write the chemical formula for the following compounds.
 - i) Aluminium Sulphate
 - ii) Silver nitrate
 - iii) Magnesium oxide
 - iv) Barium Chloride
 (OR)
- b) Explain different types of coal.
3. a) Write any five differences between monocot and dicot plants. (OR)
- b) Give a detailed account on Irrigation.
4. a) Name the different types of joints. Give one example for each. (OR)
- b) Write a note on Blue Cross.

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