



COMMON ANNUAL EXAMINATION - 2023

Standard - VIII

Reg.No.

SCIENCE

Marks:100

Time: 2.30 hrs.

PART - A

I. Answer all the questions:

16×1=16

1. Electric current is a _____ quantity.
 - a) base
 - b) supplementary
 - c) derived
 - d) professional
2. Which of the following has curved reflecting surface?
 - a) plane mirrors
 - b) spherical mirrors
 - c) simple mirrors
 - d) none of the above
3. Fuse is
 - a) a switch
 - b) a wire the low resistance
 - c) a wire with high resistance
 - d) a protective device for breaking an electric circuit
4. _____ is called as Red planet.
 - a) Mercury
 - b) Venus
 - c) Earth
 - d) Mars
5. _____ undergoes rusting.
 - a) Tin
 - b) Sodium
 - c) Copper
 - d) Iron
6. 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
7. Water changes to ice at
 - a) 0°C
 - b) 100°C
 - c) 102°C
 - d) 98°C
8. The main component of natural gas is _____.
 - a) Methane
 - b) Ethane
 - c) Propane
 - d) butane
9. Microorganisms are measured in _____.
 - a) cm
 - b) mm
 - c) micron
 - d) meter
10. One of the following is an edible mushroom.
 - a) polyporus
 - b) Agaricus
 - c) Penicillium
 - d) Aspergillus
11. _____ is tough and thick white sheath that protects the inner parts of the eye.
 - a) Sclera
 - b) Conjunctiva
 - c) Cornea
 - d) Iris
12. Which one of the following categories of vertebrae are correctly numbered?
 - a) Cervical-7
 - b) Thoracic-10
 - c) Lumbar - 4
 - d) sacral-4
13. Adam's apple is the growth of the _____.
 - a) Pharynx
 - b) Thyroid
 - c) Larynx
 - d) Parathyroid
14. Which of the following is not present in Panchagavya?
 - a) cow dung
 - b) cow's Urine
 - c) Curd
 - d) Sugar
15. Wildlife protection Act was implemented in _____.
 - a) 1986
 - b) 1972
 - c) 1973
 - d) 1971
16. All functions begins with an _____ sign.
 - a) 1
 - b) -
 - c) >
 - d) }


PART - B

II. Answer any 12 of the following questions. Q.No. 31 is compulsory: 12×2=24

17. Complete the analogy.
 - a) Knot in a thread : Static friction : Ball bearing : _____ friction.
 - b) Downward force: weight : Upward force offered.
18. Define : Specific heat capacity.
19. Match the following:

i) Ultrasonics	- Frequency below 20 Hz
ii) Speed of sound in air	- Needs material medium
iii) Infrasonics	- 330ms ⁻¹
iv) Sound Propagation	- Frequency more than 20,000 HZ
20. Distinguish between natural and artificial magnets?
21. Write the constituent elements and their Symbols for the following compounds.
 - a) Carbon Monoxide
 - b) Washing Soda
22. List out the uses of nitrogen.

23. Fill in the blanks:

- _____ is the smallest particle of an element.
 - _____ is a negatively charged particle. (Electron / Proton)
24. What is meant by binomial nomenclature? Give example.
25. What do you mean by secondary sex characteristics?
26. What is crop rotation?
27. Draw and Label the parts of the following Diagram. 
28. Define - Metabolism.
29. Name two endangered animals.
30. What is called Sorting Data?
31. Heshna and Keerthi are friends. Keerthi's teeth are white without carries, but Heshna has teeth with carries, why? How is it formed?

PART - C

III. Answer any 8 of the following questions. (Q.No. 43 is compulsory): $8 \times 4 = 32$

32. Define friction. Mention any three ways of minimising friction.
33. a) State true or False. If false, correct the statement.
- Water can conduct electricity.
 - In parallel Circuit, current remains the same in all components. (2)
- b) Give reason. When a glass rod is rubbed with Silk Cloth both get charged. (2)
34. What are the objectives of Chandrayan - I?
35. a) Mention the various conditions required for a chemical reaction to occur. (2)
- b) Why photosynthesis is a chemical reaction? (2)
36. Write the names of the following compounds.
- CO
 - N_2O
 - NO_2
 - PCL_5
37. What are the uses of acids?
38. Distinguish between Octane number and Cetane number.
39. Write any four characters of Pteridophytes.
40. Write the advantages of the Red Data book.
41. a) What is Cranium? (2)
- b) How is the skeleton of a bird well - suited for flying? (2)
42. a) Name the methods of sowing. (2)
- b) What do you mean by weeding? (2)
43. Speed of light in air is $3 \times 10^8 \text{ms}^{-1}$ and the refractive index of a medium is 1.5. Find the speed of light in the medium.

PART - D

IV. Answer all the questions:

44. a) List out the base quantities with their units. $4 \times 7 = 28$
- (OR)
- b) List out the uses of Magnets.
45. a) What is Permanent hardness of Water? How can it be removed?
- (OR)
- b) What is known as destructive distillation? Write about the products obtained from fractional distillation of Petroleum.
46. a) Write the names of medicinal plants and explain their uses.
- (OR)
- b) Give a detailed account on irrigation?
47. a) Name the different types of Joints? Give one example for each type.
- (OR)
- b) Write a short note on bacteria and its structure.