

## COMMON THIRD MID-TERM TEST - 2023

Standard IX

Reg.No. 

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## SCIENCE

Time: 1.30 hours

Marks: 80

## Part - I

8 x 1 = 8

## I. Choose the correct answer:

1. Calorie is the unit of \_\_\_\_\_  
a) heat                      b) work                      c) temperature                      d) food
2. The sound waves travel faster in \_\_\_\_\_  
a) liquids                      b) gases                      c) solids                      d) Vacuum
3. Carbon forms large number of organic compounds due to \_\_\_\_\_  
a) Autotrophy                      b) isomerism  
c) tetra valency                      d) catenation
4. The legal measures to prevent plastic pollution come under the \_\_\_\_\_ Protection Act 1988.  
a) Forest                      b) Wildlife                      c) Environment                      d) Human Rights
5. Which one of the following is not an Indian major carp?  
a) rohu                      b) catla                      c) mrigal                      d) singhara
6. The symbiotic association of fungi and vascular plants is \_\_\_\_\_.  
a) lichen                      b) rhizobium                      c) mycorrhizae                      d) azotobacter
7. All the factors of biosphere which affect the ability of organisms to survive and reproduce are called as \_\_\_\_\_.  
a) biological factors                      b) abiotic factors  
c) biotic factors                      d) physical factors
8. The atmospheric carbon dioxide enters into the plants through the process of \_\_\_\_\_.  
a) photosynthesis                      b) assimilation  
c) respiration                      d) decomposition

## Part - II

## II. Answer any 6 questions. (Q.No.16 is compulsory)

6 x 2 = 12

9. Define specific latent heat capacity. 95
10. Name the physical quantity whose SI unit is 'Hertz'. Define.
11. Define Allotrophy.
12. List the medical importance of honey.
13. Say true or false. If false, correct the statement.  
a) Apis Florea is a rock bee  
b) Ongole is an exotic breed of cattle.
14. What are the two factors of biosphere?
15. Why is it important to conserve water?

## 16. Assertion and Reason Type questions

- a) If both assertion and reason are true and the reason is the correct explanation of assertion.
- b) If both assertion and reason are true, but reason is not the correct explanation of assertion.
- c) If assertion is true but the reason is false
- d) If assertion is false but reason is true

Assertion : When water is heated up to  $100^{\circ}\text{C}$ , there is no raise in temperature until all water gets converted into water vapour.

Reason : Boiling point of water is  $10^{\circ}\text{C}$ .

## Part - III

## III. Answer any 4 questions. (Q.No.22 is compulsory)

4 x 4 = 16

17. Differentiate convection and radiation.

18. Match the following :

- |              |   |   |
|--------------|---|---|
| Turning fork | - | The point where the density of air is maximum |
| Sound        | - | Maximum displacement from the equilibrium     |
| Compression  | - | Longitudinal wave                             |
| Amplitude    | - | Production of sound                           |

19. Name the three safer resin codes of plastics and describe their features.

20. Differentiate the following :

- a) Exotic breed and Indigenous breed
- b) Shrimp and Prawn

21. How do human activities affect nitrogen cycle?

22. A sound wave has a frequency of 2 KHz and wavelength of 15 cm. How much time will it take to travel 1.5 Km?

## Part - IV

## IV. Answer all the questions.

2 x 7 = 14

23. a) List the applications of sound.

(OR)

b) What is catenation? How does carbon form catenated compounds?

24. a) Define mushroom culture. Explain the mushroom cultivation method.

(OR)

b) Explain carbon cycle with the help of a flowchart diagram