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COMMON THIRD MID TERM TEST - 2024

Std - IX

SCIENCE

Time : 1.30 Hours

Marks:50

Part - I

Choose the correct answer:

7 × 1 = 7

- Caloric is the unit of
a) heat b) work c) temperature d) food
- The fastest mode of heat transfer is
a) conduction b) radiation c) convection d) both b and c
- Number of vibrations produced in one second is
a) Frequency b) sound c) amplitude d) wavelength
- The sound waves travel faster
a) in liquids b) in gases c) in solids d) in vacuum
- Nandhini brings her lunch every day to school in a plastic container which has resin code number 5. The container is made of
a) Polystyrene b) PVC c) Polypropylene d) LDPE
- The production and management of fish is called
a) Pisciculture c) Sericulture c) Aquaculture d) Monoculture
- is the method of growing plants without soil.
a) Horticulture b) Hydroponics c) Pomology d) none of these

Part - II

Answer any five questions. (Question Number 14 compulsory)

5 × 2 = 10

- Differentiate convection and radiation.
- Name the physical quantity whose SI units is 'hertz'. Define.
- Write all possible isomers of C_2H_6O .
- Why do carbon exist mostly in combined state.
- List the medicinal importance of honey.
- Enumerate the advantages of vermicompost over chemical fertiliser.
- The frequency of a source of sound is 600Hz. Calculate the number of times it vibrates in a minute.

Part - III

Answer any three questions (Question Number 19 compulsory):

3 × 4 = 12

- a) Why do people prefer wearing white clothes during summer.
b) What is specific heat capacity.
- List the applications of sound.
- a) Differentiate graphite and diamond.
b) i) Buckminster fullerene contains carbon atoms.
ii) There are plastic resin codes.

18. a) Match it

Lobsters	- Pearl
Catla	- Shell fish
Oysters	- Vegetable forming
Olericulture	- Fin fish

b) Say true or false. If, false, correct the statement.

i) Mycorrhiza is an algae.

ii) Apis florea is a rock bee.

19. To classify the following as organic and inorganic compounds.

HCN, CO₂, Propane, PVC, CO, Kerosene, LPG, Coconut oil, wood, perfume, alcohol, Na₂CO₃, CaCO₃, MgO, cotton, petrol

Part - IV

Answer all the questions:

3 x 7 = 21

20. Explain convection in daily life.

(OR)

Explain how does SONAR work.

21. i) What is catenation? How does carbon form catenated compounds? (5)

ii) Why are one-time use and throwaway plastics harmful? (2) (OR)

i) What are the chemical reaction of carbon? (5)

ii) Explain how dioxins are formed? Which plastic type they are linked to and why they are harmful to humans? (2)

22. Define mushroom culture. Explain the mushroom cultivation methods. (OR)

i) Biomanuring plays an important role in agriculture. Justify. (3)

ii) What are secondary metabolites? (2)

iii) What are the types of vegetables garden? (2)