



07-03-2024

Standard 9**SCIENCE**

Time: 1.30 Hours

Marks: 50

I. Choose the correct answer.**8x1=8**

- 1) SI unit of temperature is
 - a) fahrenheit
 - b) joule
 - c) celsius
 - d) kelvin
- 2) In Which mode of transfer of heat, molecules, pass on heat energy to neighbouring molecules, without actually moving from their positions?
 - a) radiation
 - b) conduction
 - c) convection
 - d) Both B and C
- 3) Sound travels in air
 - a) if there is no moisture in the atmosphere
 - b) if particles of medium travel from one place to another
 - c) if both particles as well as disturbance move from one place to one another
 - d) if disturbance moves
- 4) The maximum speed of vibrations which produces audible sound will be in
 - a) sea water
 - b) ground glass
 - c) dry air
 - d) human blood
- 5) A phenomenon in which an element exists in different modification in same physical state is called
 - a) isomerism
 - b) allotropy
 - c) catenation
 - d) crystallinity
- 6) Graphene is one atom thick layer of Carbon obtained from
 - a) diamond
 - b) fullerene
 - c) graphite
 - d) gas carbon
- 7) The production and management of fish is called
 - a) pisciculture
 - b) sericulture
 - c) Aquaculture
 - d) Monoculture
- 8) Which of the following is an high milk yielding variety of cow?
 - a) Holstein-Friesan
 - b) Dorset
 - c) Sahiwal
 - d) Red Sindhi

II. Answer any six questions.**6x2=12**

- 9) Define: Conduction
- 10) Why do people prefer wearing white clothes during summer?
- 11) Through which medium sound travels faster, iron or water? Give reason.
- 12) a) Buckminster Fullerene contains Carbon atoms
 b) Compounds with same molecular formula and different structural formula are known as

kindly send me your key Answers to our email id - padasalai.net@gmail.com

9) Carbon forms only covalent compounds. Why?

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

- Mycorrhiza is an algae.
- Sheep manure contains high nutrients than farm yard manure

15) Match

Micro organism	Role played
i) Nitrosomonas	- Nitrogen fixation
ii) Azotobactor	- Ammonification
iii) Pseudomonas species	- Nitrification
iv) Putrefying bacteria	- Denitrification

16) What is adaptation?

III. Answer any four questions.

4x4=16

- Explain convection in daily life.
- What is the heat in joules required to raise the temperature of 25 grams of water from 0°C to 100°C? What is the heat in calories? (Specific heat of water = 4.18 J/g°C)
- Differentiate graphite and diamond.
- Enumerate the advantages of vermicompost over chemical fertilizer.
- Give an account of different types of fish ponds used for rearing fishes.
- What are challenges faced by hydrophytes in their habitat?

IV. Answer all the questions.

2x7=14

23) a) Explain how does SONAR work?

(OR)

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

24) a) Define Mushroom culture. Explain the mushroom cultivation methods.

(OR)

b) What is water recycling? Explain the conventional waste water recycling treatment methods.
