
Standard 9
SCIENCE
Part - I

Time: 1.30 Hours

Marks: 50

8×1=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
 a) in liquids b) in gases c) in solids d) in vacuum
- 3) Carbon forms large number of organic compounds due to
 a) Allotropy b) Isomerism c) Tetravalency 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 of the following does not contain natural dyes?
 a) Potato b) Beetroot c) Carrot d) Turmeric
- 6) One Nanometer is
 a) 10^{-7} meter b) 10^{-8} meter c) 10^{-6} meter d) 10^{-9} meter
- 7) is the method of growing plants without soil
 a) Horticulture b) Hydroponics c) Pomology d) None of these
- 8) Which of the following is an high mild yielding variety of cow?
 a) Holsten-Frisan b) Dorset c) Sahiwal d) Red Sindhi

II. Answer any 6 questions. [Question No.10 is compulsory]**6×2=12**

- 9) Differentiate convection and radiation
- 10) What could be the final temperature of a mixture of 100 g of water at 90°C and 600g of water at 20°C.
- 11) What is meant by Supersonic speed?
- 12) Define Allotropy.
- 13) What is Radio Carbon Dating?
- 14) What is Forensic Chemistry related to?
- 15) What are secondary metabolites?
- 16) Mention any two mushroom preservation method.

III. Answer any 4 questions. [Question No.19 is compulsory]**4×4=16**

- 17) a) Define thermal capacity
 b) What is Specific heat capacity?
- 18) List the applications of sound.
- 19) A sound wave has a frequency of 2 kHz and wavelength of 15cm. How much time will it take to travel 1.5km?
- 20) Differentiate graphite and diamond.
- 21) What are called Anaesthetics? How are they classified?
- 22) List the medicinal properties of honey.

Kindly send me your key answers to our email id - padasalai.net@gmail.com

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IV. Answer all the questions.

2×7=14

- 23) a) What are the changes of state in water? Explain.
b) Through which medium sound travels faster, iron or water? Give reason.

(OR)

- a) Name the three safer resin codes of plastics and describe their features.
b) Name various food additives and explain their functions.

- 24) What are the sources of organic resources for vermicosting?

(OR)

Classify the different breeds of the cattle with suitable examples.
