

Instructions:

Read the question paper carefully. Write neatly and legibly. Do not over write. Pay special attention to spelling. Read the answers before submitting the answer sheet.

I) Choose the correct option :**(5)**

- 1) 1 J equals to :
 - a) 0.24 cal
 - b) 4.18 cal
 - c) 1 cal
 - d) 1 kcal
- 2) Food chain begins with ;
 - a) respiration
 - b) photosynthesis
 - c) decomposition
 - d) decay
- 3) Renewable source of energy is :
 - a) coal
 - b) fossil fuels
 - c) natural gas
 - d) sun
- 4) The green house gas is :
 - a) oxygen
 - b) nitrogen
 - c) chlorine
 - d) carbon dioxide
- 5) Water is cooled from 4°C to 0°C . It:
 - a) contracts
 - b) expands
 - c) first contracts, then expands
 - d) first expands, then contracts

II) Answer the following questions:- (Any three)**(15)**

- 1) Describe an experiment to show that water has maximum density at 4°C .
- 2) Describe the energy flow in an ecosystem.
- 3) Write the difference between renewable and non-renewable resources of energy.
- 4) What do you mean by global warming? State the cause of increase of green house effect.
- 5) What is an ecosystem? Differentiate between producers and consumers.