

B. Answer the following questions (5)

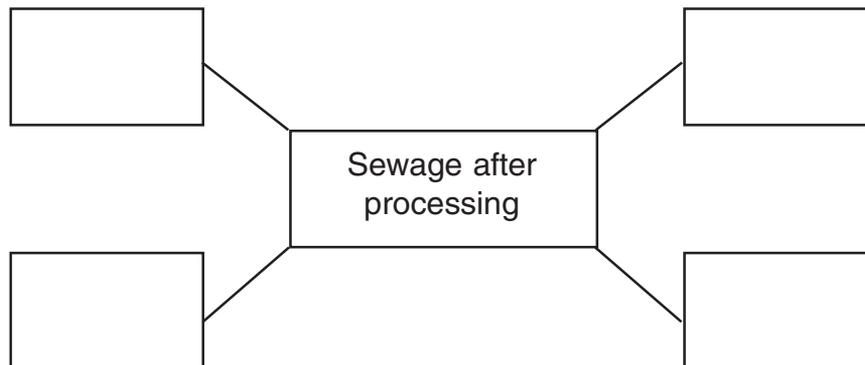
- 1) Write two hobbies to reduce the stress.
- 2) State whether the following statement is true or false
Maximum energy generation in India is done using nuclear energy
- 3) Write the correct Co-relation :
White revolution : Dairy :: Blue revolution: _____
- 4) Write any two objectives of first aid
- 5) What is biotechnology?

Q.2 A) Give scientific reasons of the following (Any 2) (4)

- 1) Though tortoise lives on land as well as in water, it can not be included in class-Amphibia
- 2) It is absolutely necessary to control the fission reaction in nuclear power plant.
- 3) Use of mutant strains has been increased in industrial microbiology.

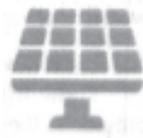
B) Answer the following questions (Any 3) (6)

- 1) Complete the following conceptual picture



- 2) Distinguish between Mitosis and Meiosis.
(write any two points of difference)
- 3) Explain any two uses of stem cells.

- 4) Identify the following symbols.

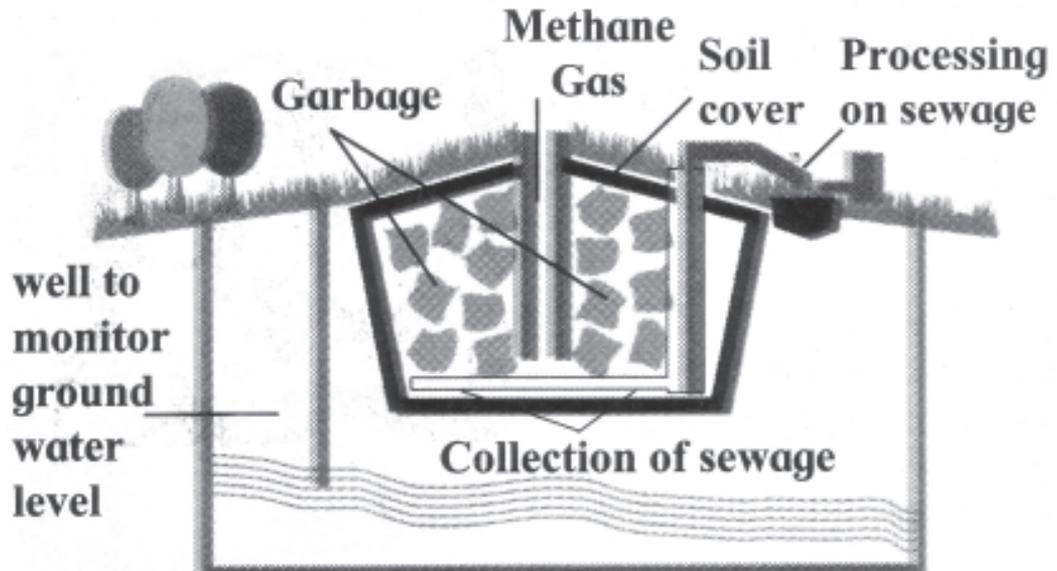


- 5) What are the connecting links? Name the connecting link between annelida and arthropoda.

Q.3 Answer the following questions (Any 5)

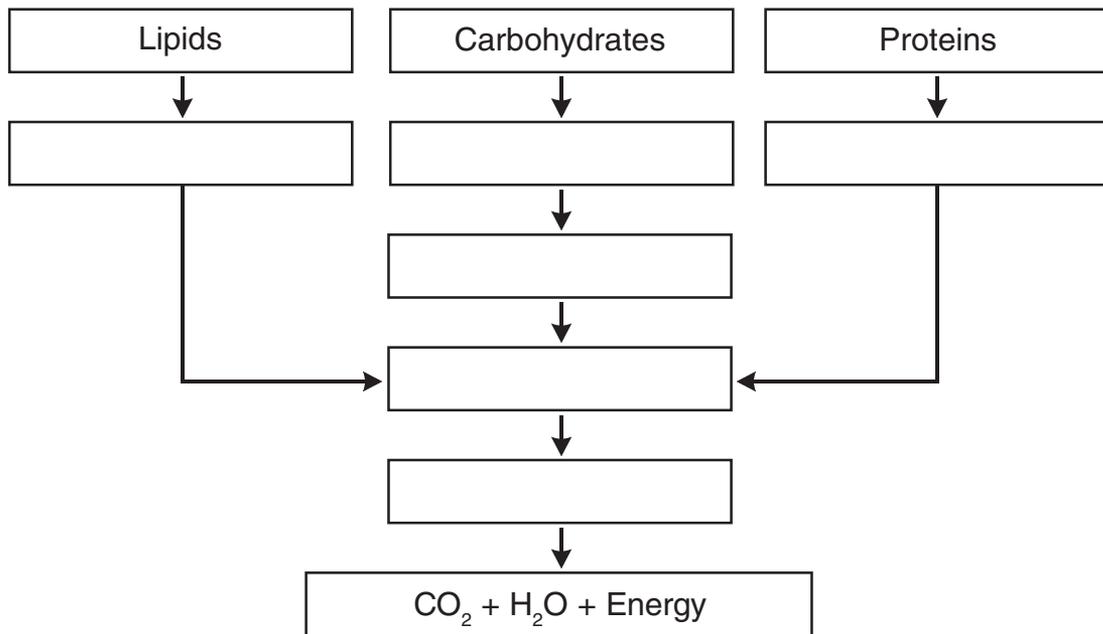
(15)

- 1) Explain : Mock drill is useful.
- 2) What is DNA fingerprinting? Explain any two uses of DNA fingerprinting.
- 3) Explain the problems associated with the hydroelectric power plant and also write the energy transformation in hydroelectric power plant.
- 4) Observe the given diagram and answer the questions given below.



- a) Identify the given diagram
 - b) Explain the process shown in the diagram
- 5) How the biodiversity can be conserved?
 - 6) Write any three objectives of disaster management.
 - 7) Explain the role of probiotics.

- 8) Complete the following flow chart of the process of energy production through aerobic respiration of carbohydrates, proteins and fats.



Q.4 Answer the following question (Any 1)

(5)

- 1) Observe the given diagram and answer the questions given below



- a) To which class does the animal belong?
 - b) Label the given diagram where numbering is done.
 - c) Write any three characteristics of that class.
- 2)
- a) Draw a well labelled diagram of female reproductive system.
 - b) Name the hormones secreted by female reproductive system.
 - c) In which organ of the female reproductive system the embryo is implanted?

