

Q.2.(A) Give scientific reasons. (Any two)

(4)

- i. Fibers are one of the important nutrients.
- ii. Lamarck's theory was disproved.
- iii. Burning of natural gas results in less pollution.

(B) Solve the following questions. (Any three)

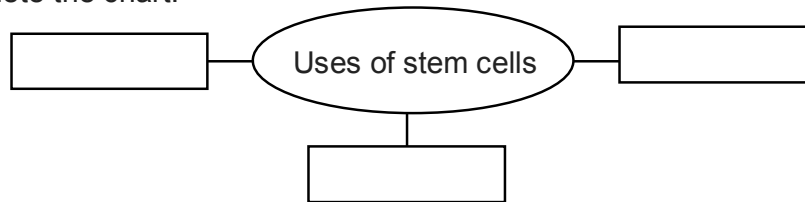
(5)

- i. Write four distinguishing characteristics of phylum Echinodermata.
- ii. Write the advantages of-Good communication with others.
- iii. Write the difference and complete the table.

Asexual reproduction		Sexual reproduction.	
a.	Reproduction that occurs with the help of somatic cells is called as Sexual reproduction	a.	
b.		b.	Male and female parents are necessary for sexual reproduction.
c.	This reproduction occurs with the help of mitosis only	c.	
d.		d.	New individual formed by this method is generally different from parents.

iv. Write a short note on Disaster Management Authority.

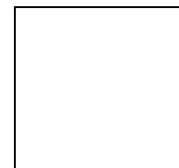
v. Complete the chart.



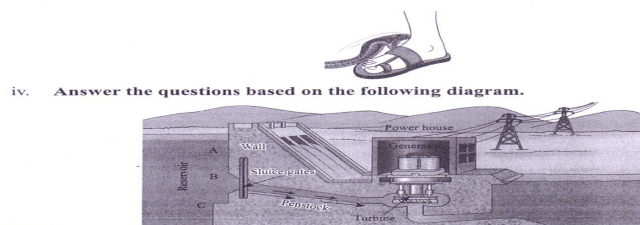
Q.3. Answer the following questions. (Any five)

(15)

- i. Explain with suitable examples, the importance of anatomical evidences in evolution.
- ii. Human beings have an important place in the environment. Explain the statement.
- iii. Suggest remedies/measures,
What precautions would you take during the following disaster?
Which type of first aid is offered in case of such incidence?



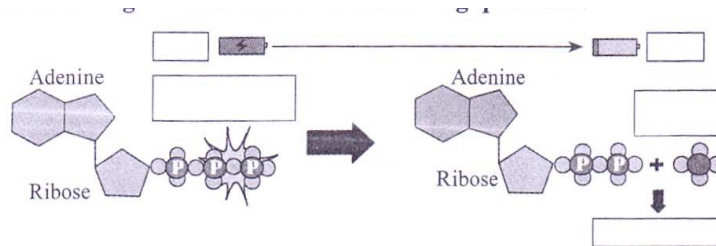
iv. Answer the questions based on the following diagram.



iv. Answer the questions based on the following diagram.

- a. With reference to point B, potential energy of how much water in the reservoir of the dam will be converted into kinetic energy?

- b. What will be the effect on electricity generation if the channel taking water to the turbine starts at point A?
- c. What will be the effect on electricity generation if the channel taking water to the turbine starts at point C?
- v. Complete the statement and explain it.
Chemically, vinegar is _____.
- vi. Complete the diagram and answer the following questions.



- a. Redraw and label the diagram.
- b. Which process is depicted in the diagram?
- c. Explain the process.
- vii. What are genetically modified crops? Explain with examples.
- viii. Mental stress has increased among children these days. Explain the statement.

Q.4. Answer in detail. (Any one)

(6)

- i. With the help of neat, labelled diagram, explain sexual reproduction in plants.
- ii. Read the following paragraph and answer the questions based on it.

Since the existence of humans, there is interrelationship between humans and environment. Humans stepped on Earth long after the formation of Earth. On Earth, human beings proved their superiority as compared to other animals with the help of characters like intelligence, memory, imaginary ability, etc. Humans established domination over nature. They utilized all the natural resources as much as possible. In an attempt to live a satisfactory life, they kept on snatching from nature as much as possible and this led to increase in problems.

From this entire scenario, we can understand that humans play a crucial role in maintaining the environmental balance. If humans have disturbed the environmental balance, then they only can conserve and improve the quality of nature. Many times, general public is unaware that its activities are harmful to the environment and thereby unknowingly many activities happen.

- a. Who is majorly responsible for environmental imbalance?
- b. Many times, general public is unaware that its activities are harmful to the environment and thereby unknowingly many activities happen'. With reference to this statement in the paragraph, state what we can do to avoid this.
- c. Why do we need to conserve environment?
- d. How can human beings conserve environment?
- e. State one example of efforts made by human beings to conserve environment.