

**Chapter: 8**

**Q.1 A) Choose the correct alternative and rewrite the sentence (1)**

- 1) Organs that cannot be donated during life time are all except  
a. Kidney      b. Liver      c. Eyes      d. Heart

**B) Answer the following (2)**

i) Find co-related terms.

Interferon : ..... : Erythropoietin : Anaemia

ii) Find the odd one out.

Drying, Salting, Cooking, Soaking with sugar

**Q.2 A) Give scientific reason: (Any one) (2)**

- i) Stem cells are extremely important in regenerative therapies.  
ii) Recently made vaccines are safe.

**B) Answer the following questions. (Any two) (4)**

i) Products obtained by biotechnology for treatment of diseases.

ii) Write Short Notes on

Organ and Body Donation.

iii) Complete the flow chart

3 Pisciculture and Aquaculture

**Q.3 Answer the following questions. (Any two) (6)**

i) Biofertilizer is a substance which contains living microorganism. Discuss ?

ii) Complete the paragraph.

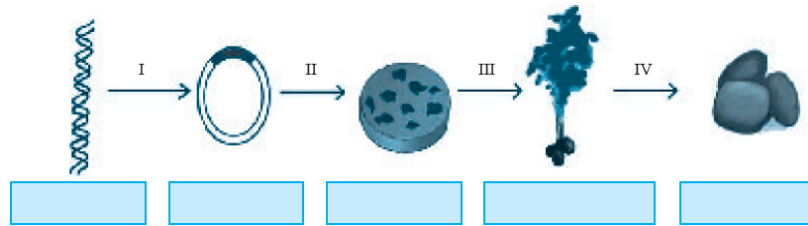
**(Degenerated, red bone marrow, adipose connective tissue, blastocyst, umbilical cord, Differentiation in bones)**

..... of stem cells form can form various tissues in the body. Stem cells are present in the ..... by which the foetus is joined to the uterus of the mother. Stem cells are also present in the ..... stage of embryonic development. Stem cells are present ..... and ..... of adult human beings. It has become possible to produce different types of tissues and the ..... part of any organ with the help of these stem cells.

iii) Write the correct statement from the statements given in the box below the figure.

- i. The whole plant is formed from the pieces of leaves which contain the genes of human pathogens.

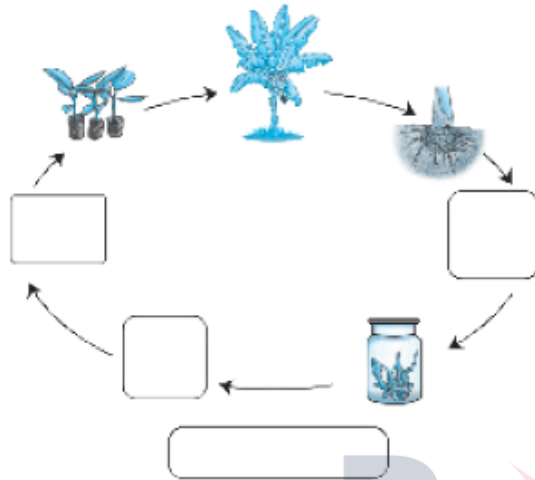
- ii. Consumption of raw potatoes builds immunity against those germs.
- iii. Isolation of desired genes from pathogens found in human beings.
- iv. Genetically transmitted plant-virus.
- v. The virus infects pieces of potato leaves.



**Q.4 Answer in brief (Any one)**

**(5)**

- i) Assign names for the various stages. Explain the various stages that are kept blank.



- ii) The below diagram shows the potential of stem cells to form different cell types. The primary cells used here are found where in the body. Give the types and properties of these cells.

