## . 2 (c) Discuss any two of the following questions.

- i. Disaccharides and its formation with a suitable example.
- ii. Structures of nitrogenous bases.
- iii. Isomerism in glucose.
- iv. Water as a universal solvent.

## Q. 3 (a) Define any five of the following terms.

i.	Avirulent.	VI.	Localized intection.
ii.	LD <sub>50</sub> .	vii.	Chronic infection.
iii.	Secondary infection.	viii.	Environmental biotechn
iv.	Exotoxin.	ix.	Inhibitory transmitter.
17	Infection	X.	Siderophore.

## Q. 3 (b) Attempt any two of the following.

- i. Explain in brief about the historical background of biotechnology.
- ii. Differentiate between endotoxin and exotoxin.
- iii. How is passive penetration different from active penetration?
- iv. Justify "Biotechnology- three component central core".

## Q. 4 Write a short note on any three of the following.

- i. Plasmid and types of plasmid.
- ii. Structure of plasma membrane.
- iii. Hydrophobic interaction.
- iv. t-RNA.
  - v. Antiphagocytic factor.
- vi. Tetanus toxin.