**Ans to the Q. No: I**

**A.1)**

**Bioinformatics & its Uses in Medicine**

**Bioinformatics**

Bioinformatics is a field that uses tools from computer science, mathematics, statistics, and engineering to answer questions about biological systems on a large scale. It typically explores information-storing macromolecules such as DNA, RNA, and proteins.

**Personalized Medicine**:

Bioinformatics is a cornerstone of personalized medicine, where data from an individual’s genome can be analyzed to predict disease susceptibility, understand genetic variations, and develop tailored treatments. By using bioinformatics, clinicians can use genetic information to select the most effective drugs and therapies.

**A.2)**

**B)**