

- Q. 4 A** What is Biomedical engineering? Discuss the interdisciplinary applications in three specialty areas. **04**
- OR**
Write about the approaches used in nanotechnology and mention any two applications in the medical field.
- B Attempt any two from the following.** **06**
- i) Describe the principles in developing diverse body plans.
 - ii) Elaborate on the functions of body fluids.
 - iii) What is MRI? Mention the principle of MRI and explain any two applications.
- Q. 5 A** Explain the utility of bioinformatics with suitable examples. **04**
- OR**
What are cell lines? Mention its principle and state the use of embryonic stem cells in cell lines.
- B Write notes on any two of the following** **06**
- i) Biochemical engineering
 - ii) Gap Junction
 - iii) Secondary database