

III B.Tech II Semester Supplementary Examinations, Apr/May 2006
ADVANCED BIOMEDICAL EQUIPMENT
(Bio-Medical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain the Principle of MRI.
(b) Explain the role of isotopes in Nuclear Imaging. [8+8]
2. Explain the principle and working of Ophthalmoscope. [16]
3. Describe working of Hearing Aid. [16]
4. (a) Define Organ, Artificial Organ.
(b) Suggest few Artificial organs. [8+8]
5. Does Artificial Hand functions same as that of an Ordinary Hand? If yes, justify it. Draw suitable sketches also. [16]
6. Name the Heart Valves and locate them within the Heart by a suitable sketch. [16]
7. What is dialysis? Explain the principle of Artificial Kidney. [16]
8. Write a short note on:
(a) Artificial Larynx.
(b) What do you mean by Speech?
(c) Define Larynx. [8+4+4]
