

**III B.Tech II Semester Supplementary Examinations,
November/December 2005
ADVANCED BIOMEDICAL EQUIPMENT
(Bio-Medical Engineering)**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. (a) List the advantages of MRI over CT scan.
(b) Describe the functioning of Gamma Camera. [8+8]
2. Explain the principle and working of Ophthalmoscope. [16]
3. (a) Explain the normal hearing Mechanism
(b) What is the need of calibration in Audioneter? How do you calibrate the Air & bone conducted signals? [8+8]
4. Write a short note on artificial organs? Which materials are used for the above organs, explain in detail. [16]
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. Draw the diagram of a simple Haemodialyser machine and explain. [16]
8. What do you mean by Larynx, Sketch and label it. [16]
