

III B.Tech I Semester Supplementary Examinations, April/May 2005
BASIC CLINICAL SCIENCES-II
(Bio-Medical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain in detail about a ball and socket joint. Give examples.
(b) Write a brief note on blood transfusion.
2. (a) Explain the functions of the various anaesthetic gases.
(b) What are gas laws? Give the pin index and colour of the cylinders of various gases?
3. (a) Explain the techniques used to monitor the respiration and temperature of a patient undergoing surgery.
(b) How do you organize an operation theatre?
4. (a) Discuss the various approaches used in cancer therapy.
(b) Explain the terms radio resistivity and radio sensitivity of tumors.
5. (a) Explain the modification of radiation response by different modifiers.
(b) Write short notes on radiation dosimetry.
6. (a) What spectrum of radiation energy can induce cataract. How can it be prevented?
(b) Write about radiation and skin damage.
7. Explain the techniques of imaging the cardio vascular system.
8. (a) What are the different radio-isotopes used in nuclear medicine. Explain about the characteristics of each.
(b) What are the therapeutic uses of radio isotopes?
