

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 3618

L

Unique Paper Code : 6322473603

Name of the Paper : HOSPITAL ENGINEERING
& BIO-MEDICAL
ENGINEERING (DSC-18)

Name of the Course : B.Voc. (Healthcare
Management)

Semester : VI

Duration : 3 Hours

Maximum Marks : 90

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. All questions carry equal marks.
3. Attempt five out of the seven questions.

1. A 200 bedded hospital located in an urban area is planning to purchase new medical equipment. Explain the steps involved in the selection, Purchase, installation, and commissioning of medical equipment?
(18)

P.T.O.

2. A newly established hospital is planning to start its operations. Identify the list of essential medical equipment required for this hospital? Prepare a step-by-step equipment budgeting strategy? (9,9=18)
 3. Explain in detail the factors to be considered while preparing a justification proposal for purchase of medical equipment? (18)
 4. What is preventive maintenance? Why it is important? How can hospitals reduce equipment downtime? (3×6=18)
 5. Explain the concept of Break-even point and profit estimation for medical equipment. A hospital purchases a diagnostic machine for Rs.2 lacs. The hospital charges Rs.600 per test, with variable cost of Rs. 200 per test. Calculate the number of tests required to achieve the breakeven point? (18)
 6. What is calibration and why it is important in a medical setting? Discuss the role of bio medical engineer in a hospital? (9,9=18)
 7. Describe the steps involved in estimating the cost of medical equipment with example? Explain the Quality Control planning of equipment in a hospital? (9,9=18)
- (100)**