

B.Tech. SEM -VI Bio Medical 2014 Course (CBCS) : SUMMER - 2019

SUBJECT : INSTALLATION MAINTENANCE AND SERVICING

Day : Friday
Date : 31/05/2019

Time : 02.30 PM TO 05.30 PM
Max. Marks : 60

S-2019-2776

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data, if necessary.

Q.1 Draw the structure for IMS and their functions in the hospital. **(10)**

OR

Q.1 a) Give the outline of biomedical engineering department in the hospital. **(05)**
b) What is biomedical engineering? What are the job opportunities for biomedical engineer? **(05)**

Q.2 a) What is the role of application specialist in the hospital industry? **(05)**
b) What are the relations of customer care engineer with company policies? **(05)**

OR

Q.2 a) What are the essentials required for biomedical engineer in agency for medical instruments? **(05)**
b) List the ICU instruments and mention major maintenance factors to be considered for ICU equipments. **(05)**

Q.3 List installation techniques and explain in detail. **(10)**

OR

Q.3 What are the responsibilities for company and user during warranty period? **(10)**

Q.4 State the importance of MMS in detail with comparison of manual record system in the hospital. **(10)**

OR

Q.4 a) Explain the installation process for radiological instruments. **(05)**
b) What are the various protocols required for biomedical equipments? **(05)**

Q.5 State minimum 10 points on various difficulties observed if preventive maintenance is not done regularly in the hospitals. **(10)**

OR

Q.5 a) What do you mean by overall maintenance in equipments? **(05)**
b) What is the importance of insurance in medical equipments? **(05)**

Q.6 Write the purpose of ISO certification in the hospitals. Explain in detail. **(10)**

OR

Q.6 a) Is NABH certification compulsory for all type of hospitals? What are the types of various compliances required? **(05)**
b) Write short notes on SOP. **(05)**

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