

B.TECH. SEM -VI BIO MEDICAL 2014 COURSE (CBCS) :

SUMMER - 2018

SUBJECT : INSTALLATION MAINTENANCE & SERVICING

Day : **Monday**

S-2018-2456

Time : **02.30 PM TO 05.30 PM**

Date : **11/06/2018**

Max. Marks : 60

N.B.:

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

Q.1 a) Who is important in installation process? Why? [05]

b) What are the responsibilities of the biomedical engineer? [05]

OR

a) What is planned preventive maintenance? [05]

b) List the important factors during installation process. [05]

Q.2 a) Describe the scope of Research and Development in the field of biomedical. [05]

b) Give the details of "Application Specialist" in an industry. [05]

OR

a) What is the idea behind sales and marketing? [05]

b) Define the term maintenance and its importance with respect to biomedical equipments. What are the reliability aspects of equipments? [05]

Q.3 List and explain responsibilities of company and user during warranty period. [10]

OR

Write short notes on: [10]

a) Need of installation techniques b) Maintenance of equipments in ICU

Q.4 a) Describe installation technique for pathology instruments. [05]

b) Define Indian standards for biomedical instruments. [05]

OR

Specify the features of MMS to develop a software in hospital. [10]

Q.5 List and explain the requirement of tools and testing devices in the biomedical department. [10]

OR

a) What is LAMC and CAMC? Define commissioning. [05]

b) Explain the condemnation process and biomedical instruments. [05]

Q.6 Why and how ISO is executed in the hospital administration? Explain in detail. [10]

OR

a) What is NABH and explain its need in hospital? [05]

b) Define SOP and explain its importance in hospital. [05]

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