

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

WINTER - 2017

SUBJECT : INSTALLATION MAINTENANCE & SERVICING

Day : **Friday**

Time : **10.00 AM TO 01.00 PM**

Date : **24/11/2017**

W-2017-2244

Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Assume suitable data if necessary.
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Q.1 a) Enlist functions of IMS in industry. **[05]**

b) Elaborate the role of biomedical engineer in hospital. **[05]**

OR

a) Why maintenance is required for biomedical equipments? **[05]**

b) Differentiate between servicing and repairing of biomedical equipments. **[05]**

Q.2 What are the various jobs carried out by biomedical engineer in industry? **[10]**

OR

Explain company structure in detail. Discuss the value of customer and biomedical engineer. **[10]**

Q.3 a) What do you mean by extended warranty? Explain it with the help of example. **[05]**

b) What are the pre-installation techniques? **[05]**

OR

Why the testing of equipment is important? Explain testing of instruments before handovering to the hospitals. **[10]**

Q.4 List and explain international protocols for biomedical equipments. **[10]**

OR

a) What are the installation steps to be followed for O.T. instruments in general? **[05]**

b) Write a note on "Importance of fumigation in OT and ICU". **[05]**

Q.5 What is the importance of safety for biomedical equipment? Draw the diagram showing physiological effects of current passing through the human body. **[10]**

OR

a) What are the factors needs to be considered in overall maintenance of various portable instruments? **[05]**

b) What do you mean by troubleshooting? **[05]**

Q.6 Explain the different ISO standards used in hospital for certification. **[10]**

OR

a) Explain the importance of NABL in the hospital. **[05]**

b) Write note on "NABH". **[05]**

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