

Printed Pages : 2



EBM-501

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 101505

Roll No.

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B.Tech.

SEM. V (ODD SEM.) THEORY
EXAMINATION, 2014-15
BIOINSTRUMENTATION

Time : 3 Hours]

[Total Marks : 100

1. (a) Describe the working of pressure transducer with suitable Example . **10**
- (b) What are the types of transducer? What are the 10 factors to be considered while selecting transducer?
2. (a) What are the types of microelectrodes? Describe 10 in brief.
- (b) Draw the block diagram of ECG machine **10** explaining each block in brief.
3. (a) What are leakage current? Explain in brief with 10 example.
- (b) Explain in brief about the radiation hazard and 10 shielding.

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[Contd...

4. (a) Describe in brief the measurement procedure of pO_2 and pCO_2 . 10
(b) Draw the block diagram and working of Hemodialysis Machine. 10
5. Explain in brief about fiber optic chemical transducer. 10
6. Write short notes on : (any two) 5x2=10
(a) Earthing methods
(b) Types of dialysis
(c) Ionic content of blood
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