

Code No: 56050

Set No. 1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

III B.Tech. II Sem., II Mid-Term Examinations, April – 2014

BIOMEDICAL EQUIPMENT

Objective Exam

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I Choose the correct alternative:

1. The internal pacemaker that sets biological rhythms []
a) Is located in the brain b) Is located in the heart c) A and B d) None of the all
2. The electrode arrangements for use with cardiac pacemakers can be in the form of []
a) Unipolar b) Bipolar c) A and B d) None of the all
3. Automated defibrillators that advise the EMT-Basic to press a button that delivers the defibrillation shock are called. []
a) Fully automatic b) Semi-manual c) Manual d) Semiautomatic
4. Pump that can provide the necessary pressures and flow rates required by modern liquid chromatography. []
a) Suction pump b) Syringe pump c) Infusion pump d) all
5. The frequency of currents used in surgical diathermy units is in the range of-----MHz []
a) 0.4 to 1.5 b) 1 to 2 c) 1 to 3 d) 1 to 10
6. What is the average glomerular filtration rate per day []
a) 90 b) 120 c) 150 d) 180
7. The _____ electrode area is 50-200 cm² in surgical diathermy []
a) Active b) Different c) Indifferent d) Bipolar
8. The current higher than _____ current is holding on accident []
a) Let go b) Hold on c) Leakage d) Micro
9. The _____ hazards in the operation theaters is due to the presence of anesthetic gases and cleaning agents []
a) Short circuit b) Exposure c) Micro shock d) Leakage
10. Haemodialysis machine also controls the cycling of the _____ from the patient through the artificial kidney & back to the patient. []
a) Oxygen b) Water c) Urine d) Blood

Cont.....2

II Fill in the blanks

11. Each kidney consists of a million individual units all similar in structure & function called _____
12. The gas exchanges in the lungs are called _____ respiration & those in the tissues are called _____ respiration.
13. Most of the defibrillators deliver between _____ percent of the stored energy to a 50 Ω load
14. _____ refers to superficial tissue destruction without affecting deep seated tissues.
15. The trapezoidal and rectangular waveforms are required for the effective trans-thoracic _____
16. _____ pump infuses fluids, medication or nutrients into a patient's circulatory system.
17. Heart lung machine was built by _____
18. RF sine wave used in electro surgical devices range from _____
19. The _____ play important role in maintaining acid-base balance in body.
20. The _____ pressure ventilator is used for patients with wide range of pulmonary disorders.

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Set No. 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

III B.Tech. II Sem., II Mid-Term Examinations, April – 2014

BIOMEDICAL EQUIPMENT

Objective Exam

Name: _____ Hall Ticket No.

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I Choose the correct alternative:

1. Pump that can provide the necessary pressures and flow rates required by modern liquid chromatography. []
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2. The frequency of currents used in surgical diathermy units is in the range of-----MHz []
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Cont.....2

II Fill in the blanks

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