



Course Name: Practical training (1)  
Course Code: 390  
Mid Term Exam.  
BME Program  
Level 300  
Exam Date: 29 - 11 - 2018  
Allowed Time: 1 Hour



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**1- Write true or false (Score 10)**

- 1) The PM is planned maintenance whereas the CM is unplanned maintenance.
- 2) Infusion pump is appropriate for low rate infusions.
- 3) The size of ICU in general hospitals should be 2% of hospital beds.
- 4) The size of large OR should be not less than 42 m<sup>2</sup>.
- 5) Coronary care unit is a general type of ICU.
- 6) Pulse oximeter device is used to measure oxygen arterial saturation.
- 7) The role of the clinical engineer in a hospital began in the late 1960's.
- 8) The largest traffic flow in OR goes to the patients.
- 9) Risk management is one fundamental aspect of the clinical engineering.
- 10) Control desk in OR is used to prepare the patient for a surgery.

**2- Choose the most correct answer (Score 5)**

- 1- The clinical engineer interacts with patient for
  - a) Cost & economics
  - b) Safety & efficacy
  - c) Medical requirements
- 2- Verification of accessories and electrical safety test are examples of activities that should take place in
  - a) Planning
  - b) Maintenance
  - c) Incoming inspection
- 3- The patients that are under observation and long term ventilation, they should be in
  - a) ICU level I
  - b) ICU level II
  - c) ICU level III
- 4- Processing storage area for surgical tools located in
  - a) Unrestricted area
  - b) Semi restricted area
  - c) Restricted area

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*With my best wishes  
Dr. Nour Saloh*



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5- The configuration of 10-20 leads is used for

- a) EEG
- b) ECG
- c) EMG

**3- Answer the following question (Score 5)**

List five parameters that are recorded by the patient monitor. (5)

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*With my best wishes*  
*Dr. Neven Saleh*