MULTIPLE CHOICE: Choose the one alternative that best completes the statement or answers the question.

1) An Electro-Cardio Gram is used to show which of the following?
   A) Activity of the heart
   B) How well the heart is pumping blood
   C) Shows the beats of the heart
   D) Electrical activity of the heart

2) An ECG can be used to help determine all of the following except
   A) A myocardial infarct
   B) Heart arrhythmias
   C) Effectiveness of muscle contractions
   D) Electrical rhythm of muscle contractions

3) An ECG is indicated under which of the following circumstances?
   A) Difficulty Breathing
   B) Stomach Pain
   C) Trauma
   D) Head ache

4) Contraindications include
   A) History of Angina
   B) Pregnancy
   C) Unconsciousness
   D) There are no Contraindications

5) In placement of the electrodes for a 12-lead, there are ____ limb leads and ____ chest leads.
   A) 6, 4
   B) 4, 6
   C) 4, 8
   D) 6, 6

6) When placing chest leads, V4-V6 should all be placed in which intercostal space(s)?
   A) 4th intercostal space for V4 and in line with V4 for V5 and V6
   B) 5th intercostal space for V4 and in line with V4 for V5 and V6
   C) 6th intercostal space for V4, V5, and V6
   D) 6th intercostal space for V4, 7th intercostals space for V6, and in between for V5
7) Which of the following is a proper sequence for acquiring a 12-lead?

   A) Place electrodes, Turn monitor on, Input patient information, Obtain 12-lead
   B) Turn monitor on, Obtain 12-lead, Transmit 12-lead, Print 1 strip
   C) Turn monitor on, Input Information that it asks for, Place electrodes, Transmit 12-lead
   D) Turn monitor on, Push 12-lead button, Print 2 strips, Transmit 12-lead

8) Which of the following is the most appropriate time to obtain a 12-lead?

   A) In the back of the ambulance while enroute to the hospital
   B) On scene with everyone around
   C) Before leaving, wherever it can be done without jeopardizing privacy
   D) In the back of the ambulance, about 10 minutes from the hospital

9) You have a patient attached to the monitor and you are attempting to obtain a 12-lead, but leads V1 and V3 are not showing on the monitor. Which of the following would be the first thing to do?

   A) Check electrodes
   B) Check plug into monitor
   C) Redo 12-lead
   D) Ignore it

10) All of the following are common complications except?

   A) Patient movement
   B) Loud noise
   C) Bumpy ambulance
   D) Low battery

11) Which of the following is a purpose of transmitting the 12-lead to the ER:

   A) Patient can get to advanced care more quickly
   B) Physician can compare previous 12-leads to your current 12-lead
   C) Physician can see changes that may have occurred enroute
   D) All the above

12) To transmit a 12-lead, which of the following must be established?

   A) A receiving device at the hospital and an abnormal ECG
   B) A transmitting device with the monitor and a receiving process at the hospital
   C) A transmitting device with the monitor and an abnormal ECG
   D) An abnormal ECG and permission from the ER to transmit to them

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13) When documenting a 12-lead you should include all the following except?

A) A copy of the 12-lead  
B) Time the 12-lead was obtained  
C) Interpretation of the 12-lead  
D) Information about the 12-lead

14) You just finished a call with a 68 year of female that had stabbing chest pain. You were not able to get a 12-lead due to equipment malfunction. Which of the following should you do?

A) Document the equipment malfunction as a reason for not obtaining a 12-lead  
B) Report the equipment malfunction and not worry about the 12-lead in your report  
C) Document the equipment malfunction and attach the hospital’s 12-lead  
D) Document the equipment malfunction and put the hospital’s interpretation of their 12-lead
Answer Sheet – EMT & EMT-A – 12-lead Acquisition

1) D
2) C
3) A
4) D
5) B
6) B
7) A
8) C
9) A
10) D
11) D
12) B
13) C
14) A