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# **AAMI CABT**

**Certified Associate in Biomedical Technology**



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# Latest Version: 6.0

## Question: 1

Lungs extract oxygen from air and transfer it into the bloodstream by inhalation. Oxygenate the blood (red on diagram previous page)

Lungs release carbon dioxide (CO<sub>2</sub>) from the bloodstream into the atmosphere, in a process of gas exchange called exhalation. CO<sub>2</sub> is a respiratory acid

Responsible for acid-base balance in the body regulating pH

The main muscle of respiration that drives breathing is the diaphragm.

The lungs also provide airflow that makes vocal sounds including speech.

- A. Esd
- B. Heart
- C. Lungs function
- D. Ppe

**Answer: C**

## Question: 2

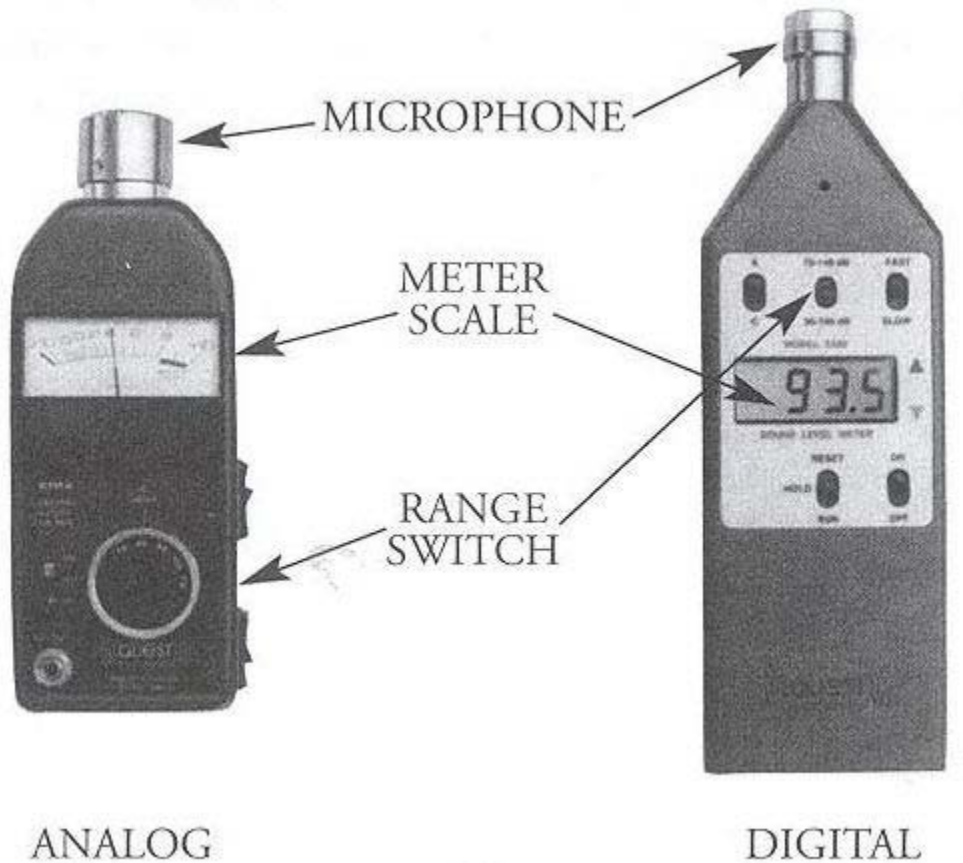
Current level (Milliamperes)	Probable Effect on Human Body
1 mA	Perception level. Slight tingling sensation. Still dangerous under <u>certain conditions</u> .
5mA	Slight shock felt; not painful but disturbing. Average individual can let go. However, strong <u>involuntary reactions</u> to shocks in this range may lead to injuries.
6mA - 16mA	Painful shock, begin to lose muscular control. Commonly referred to as the freezing current or "let-go" range.
17mA - 99mA	Extreme pain, respiratory arrest, severe <u>muscular contractions</u> . Individual cannot let go. <u>Death is possible</u> .
100mA - 2000mA	Ventricular fibrillation (uneven, uncoordinated pumping of the heart.) Muscular contraction and nerve damage begins to occur. <u>Death is likely</u> .
> 2,000mA	Cardiac arrest, internal organ damage, and severe burns. Death is probable.

- A. Current levels of the human body
- B. torque screwdriver
- C. Series and Parallel
- D. Chemical Placard

**Answer: A**

### Question: 3

measurement is the analysis of an applied force by a fluid (liquid or gas) on a surface

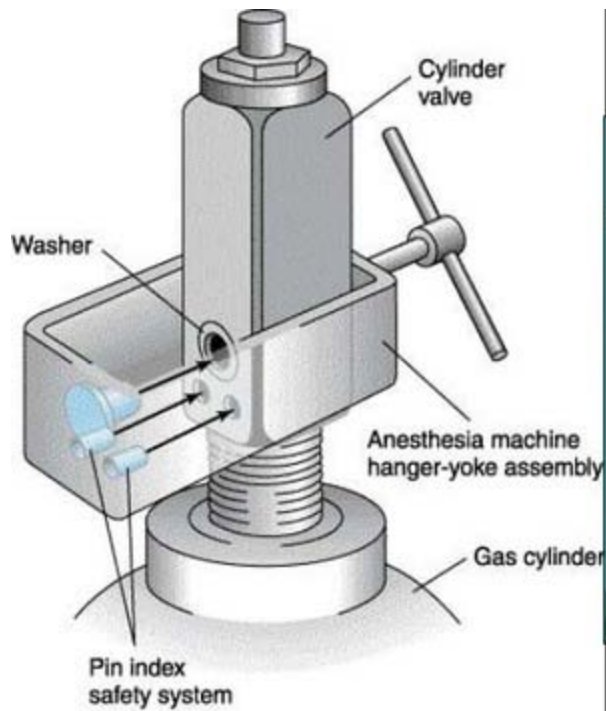


- A. Suction pump
- B. Macro shock
- C. Pressure meter
- D. Pca pump

**Answer: C**

### Question: 4

Pin Index Safety System



- A. Current
- B. (PISS)
- C. SMDA
- D. Green Dot

**Answer: B**

**Question: 5**



- A. diagonal cutters
- B. needle nose
- C. Series and Parallel
- D. Current levels of the human body

**Answer: B**

### Question: 6

Source and Ionizing Radiation  
Time, Distance and shielding



- A. Thermometer
- B. Radiation safety
- C. Ppe
- D. Micro shock

**Answer: B**

### Question: 7

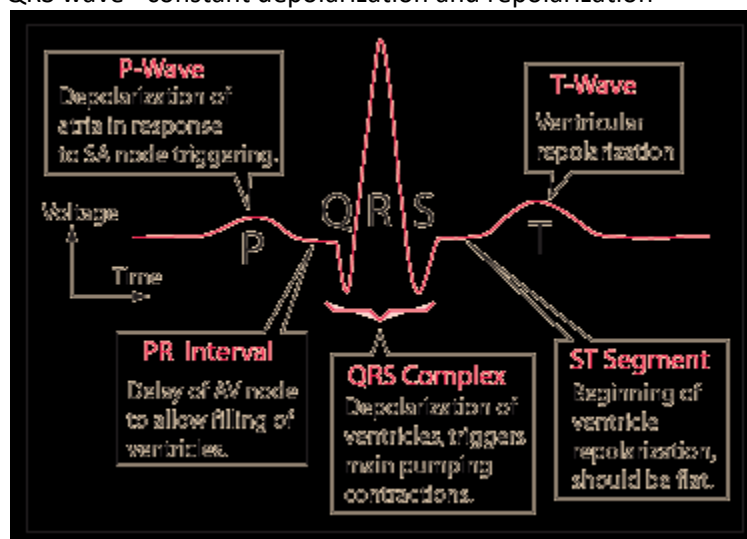
is caused by the passage of relatively large currents through the body, as might occur if the "hot" side of the power line is contacted. Electric burns, muscle spasms

- A. Macro Shock
- B. Bladder Scanner
- C. Micro Shock
- D. T Pump

**Answer: A**

### Question: 8

QRS wave - constant depolarization and repolarization



- A. EKG wave called?
- B. patient simulator
- C. IV flow Analyzer
- D. Ophthalmoscope

**Answer: A**

### Question: 9

AC is used to power our homes and businesses.  
Transformers step-up and step-down voltages.  
Can generate AC at very high voltages, transmit over large distances, step-down to safe levels.  
Rectifiers convert AC to DC.  
DC used to power most solid state devices.



- A. Alternating Current (AC)
- B. Direct Current (dc)
- C. Temperature Therapy (K-Therms)
- D. Smda

**Answer: A**

### Question: 10

Measures bladder volume, take more than one scan for accurate reading and always take highest reading. If female with hysterectomy must be inputted as male on scanner



- A. Macro Shock
- B. esd
- C. bladder scanner
- D. macro shock

**Answer: C**

### Question: 11

a device that delivers an electric shock to the heart to stop the heart



- A. Defibrillator
- B. Heart
- C. Patient Simulator
- D. Arteries

**Answer: A**

## Question: 12

a pump for raising water or other fluids by suction, consisting essentially of a vertical cylinder in which a piston works up and down, both the cylinder and the pump having valves that control the flow of the fluid.



- A. Suction pump
- B. Feeding pumps
- C. Pass
- D. Pressure meter

**Answer: A**

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