

ESU Test

Passing score is 80%

1. What is an Electrosurgical Unit used for?
 - a. Cut tissue
 - b. Destroy tissue
 - c. Stop blood flow
 - d. All of the Above

2. What part of the body is and ESU used on?
 - a. Bones
 - b. Blood vessels
 - c. Soft tissue
 - d. B and C

3. An ESU uses a frequency of _____, also called _____ to cut and coagulate.
 - a. 500Hz; Fulgeration
 - b. 500kHz; Radio Frequency.
 - c. 1,000kHz; Radio Frequency.
 - d. 1,000kHz; Fulgeration

4. The _____ mode of operation used a larger active electrode and a smaller dispersive electrode, while the _____ mode uses two similar size electrodes mounted on a common handpiece.
 - a. Monopolar; Bipolar.
 - b. Bipolar; Bipolar.
 - c. Bipolar; Monopolar.
 - d. Cut; Coagulate.

5. Which mode(s) of operation allows current to diffuse throughout a large area of the body?
 - a. Monopolar
 - b. Bipolar
 - c. Monopolar and Bipolar
 - d. Neither

6. Which is not a use of electrosurgery?
 - a. Accelerating spot whitening
 - b. Tissue re-attachment
 - c. Tissue sculpting
 - d. Hair removal

7. What aspect of an electrode determines its specific use?
- Temperature
 - Size and Shape
 - Current Strength
 - All the above
8. Match each mode of operation to what it is used for:
- | | |
|-----------------------------|---|
| a. Cut <u> 1 </u> | 1. cutting tissue |
| b. Coagulation <u> 4 </u> | 2. destroying tissue |
| c. Blend <u> 3 </u> | 3. cutting and reducing bleeding |
| d. Desiccation <u> 2 </u> | 4. maximum haemostasis/stopping the flow of blood |
9. The energy introduced by electrosurgery reacts with _____ within the cells of tissue being treated.
- tissue strength
 - the temperature
 - tissue elasticity
 - water molecules
10. Which of the following isn't an accessory of an electrosurgical unit?
- Footswitch
 - Flexible plate or pad
 - Handpiece
 - Patient leads
11. Higher frequency and lower voltage results in the _____ mode, while higher voltage and lower frequency results in the _____ mode.
- cut; dessication
 - cut; coagulation
 - coagulation; blend
 - dessication; blend
12. Which isn't a part of an electrosurge handpiece?
- Plastic nonconductor
 - Electrode insulator
 - Conductor tip
 - Rubber sheath
13. During calibration, you shouldn't
- Operate the unit for a prolonged period of time

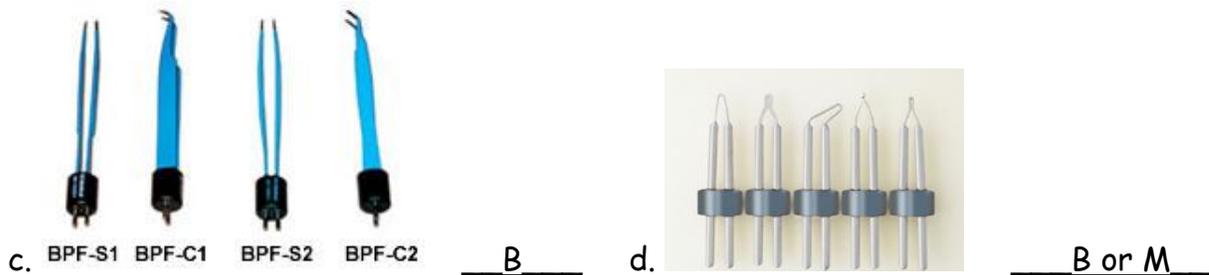
- b. Leave the unit in the "on" mode when not taking measurements
- c. Measure current from the return electrode when the unit is activated for testing isolated output current

d. All the above

14. "Blend" is a mixture of cut and coagulate.

True / False

15. Label the following handpieces with a B or M, as being bipolar or monopolar.



16. What is the use of the connector in this picture?



Testing MFG specific parameters

17. Which is not a measured parameter of the 454A ESU tester?

- a. Resistance
- b. Current
- c. Voltage
- d. Power

18. Which test utilizes the Current Loop + and - jacks?

- a. Generator Output
- b. RF Leakage
- c. Ammeter
- d. Auxiliary

19. Electrosurgery and electrocautery mean the same thing
True / False