

## ESU Test

Passing score is 80%

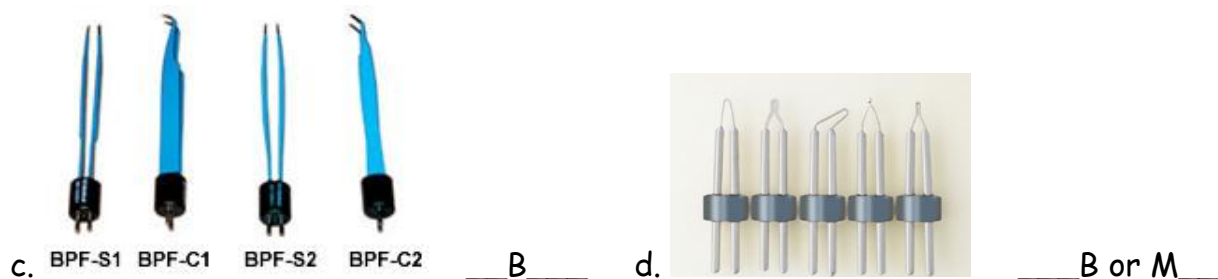
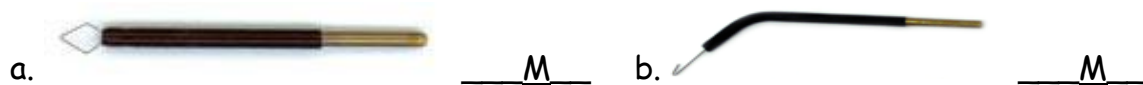
1. What is an Electrosurgical Unit used for?
  - a. Cut tissue
  - b. Destroy tissue
  - c. Stop blood flow
  - d. All of the Above
2. What part of the body is and ESU used on?
  - a. Bones
  - b. Blood vessels
  - c. Soft tissue
  - d. B and C
3. An ESU uses a frequency of \_\_\_\_\_, also called \_\_\_\_\_ 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

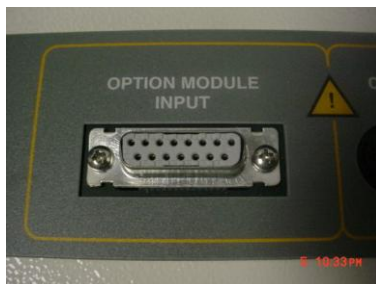
- b. Leave the unit in the "on" mode when not taking measurements
- c. Measure current from the return electrode when the unit is activated for testing isolated output current
- d. All the above

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