



## EEG Technician Training Certification Test (Version A)



Name: \_\_\_\_\_

Date: \_\_\_\_\_

Location: \_\_\_\_\_

Training Specialist: \_\_\_\_\_

***Instructions: Please read each of the questions carefully then circle the best answer.***

- 1. How do you identify if the device has established a wireless connection to the Bluetooth Dongle or ESU?**
  - a. The device's green indicator light will keep blinking after 5+ seconds
  - b. The device's amber indicator light will turn solid after 5+ seconds
  - c. The device's green indicator light will turn solid after 5+ seconds
  - d. The device's amber indicator light will keep blinking after 5+ seconds
  
- 2. After completing your first impedance check, you notice that several channels are either red or yellow. How should you proceed?**
  - a. There is nothing that you can do to fix this
  - b. Check that the foam sensors are making contact with the scalp, part the hair and add synapse cream as needed
  - c. Recharge the headset
  - d. Remove the foam sensors from the strap and clean them with an alcohol wipe
  
- 3. What step occurs immediately before the data acquisition begins?**
  - a. Use the "Test Impedance" function in the software provided
  - b. Look for the IP address
  - c. Remeasure the head from the nasion to theinion (occipital protuberance) to double check the strip size
  - d. None of the above
  
- 4. How many times can an EEG sensor head strip be used?**
  - a. The sensor strips can only be used once and should be discarded after one use
  - b. 25 recordings, but their useful life lasts longer with proper cleaning, storage, and care
  - c. Unlimited – the sensor strips do not wear out over time
  
- 5. Describe the proper method for initial application of the synapse cream to the foam sensors:**
  - a. This is not applicable as no synapse cream is required
  - b. Apply synapse cream to the center of each foam sensors. Use the flat end of the syringe to press on the foam sensors. Repeat this 1 - 2 more times.
  - c. It is best to experiment and find what works best with each hair type
  - d. Apply the synapse cream to the middle of each electrode, and place the foam sensor on each one

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- 6. When attaching the foam sensors to the strip:**
- Ensure that the strip is right-side up, with the sensor site labels readable; the foam sensor placement should be inside the black circle surrounding each site
  - Ensure that the strip is upside down, with the sensor site labels not visible. Use the black circle surrounding each site a guide for foam sensor placement
  - Ensure that the strip is upside down, with the sensor site labels not visible; the foam sensor placement does not matter as long as they are relatively on the channel site
  - None of the above
- 7. Which of the following would be an example of proper strap placement on the head?**
- Resting over the ears, not centered on nasion
  - Below the ears, centered on nasion
  - Just above the ears, centered on nasion
  - A & B
- 8. To minimize altering the placement of the foam sensors and misaligning the strip while adding synapse cream to the sensor sites during troubleshooting, you should:**
- Lift up the neoprene strap around the head; this allows plenty of room to add the synapse cream
  - Detach one strip arm at a time, gently part the hair and add synapse cream to the scalp underneath the foam sensor
  - Detach all of the strip arms simultaneously and add synapse cream to each foam sensor site
  - None of the above
- 9. It is recommended to apply the linked mastoid electrodes before the sensor strip and head strap:**
- True
  - False
- 10. Where is the ideal mastoid electrode placement location?**
- On top of the ears
  - Behind the ears, on the neck muscle
  - Behind the ears, over the hair
  - On the bony area behind the ears, cleared of any hair
- 11. To break down the system, you first:**
- Take everything off the head and immerse in a sink of soapy water
  - Remove the headset from the head, remove the strap along with the strip, and leave the foam sensors affixed to the strip for the next use
  - Turn off the device. Unplug 2-pin and 3-pin cables from device. By unlatching the device door first, disconnect the strip connector and carefully take the sensor strip and head strap off of the head by releasing each of the Velcro strip arm tabs, one at a time
- 12. How do you properly remove the foam sensors from the sensor strip during device breakdown?**

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- a. Immediately after the recording, use the provided tweezers to remove the foam sensors only. It is OK if the adhesive ring is left on the strip
- b. Immediately after the data recording, use the provided tweezers to grip the blue tab and peel away the foam sensors from the sensor strip. Ensure that the adhesive ring is entirely removed
- c. Anytime within 72 hours after the recording, peel away what you can by hand but soak the strip in an alcohol solution so the rests dissolves away
- d. None of the above

### **13. How should the sensor strip be cleaned after use?**

- a. Use an abrasive detergent or soap
- b. Wipe with steel wool
- c. Use a paper towel or a tissue to remove excess synapse cream from the sensor strip and then use an alcohol swab to remove remaining residue
- d. Bleach is recommended to fully sterilize the strip

### **14. After the head strap has been applied to the head, what is the next step in the device setup?**

- a. Simultaneously attach the middle strip arm tabs
- b. Simultaneously attach the furthest back strip arm tabs
- c. Simultaneously attach the two front strip arm tabs
- d. It depends on hair type

### **15. How should the sensor strip be stored after data collection is complete?**

- a. Sensor strips should be stored on a flat surface away from heat to prevent any damage
- b. Fold the sensor strip in half to make it more compact for better storage
- c. Throw the sensor strip in a box along with the other equipment
- d. There is no proper way to store a sensor strip