1. Match the word on the right with the correct function:

a) ![Icon](image1.png) This icon located at the front of the controller lights up when one or more alarms occurs. __c__ AC Adapter

b) ![Icon](image2.png) This button silences the low and medium audible alarms. __a__ Alarm Indicator

c) This is an adapter/cable that transfers power from an electric outlet to run the controller. __b__ Alarm Mute Button

2. Match the picture to the definition:

a) Test button on battery __b__

b) Driveline Exit Site __a__

c) Battery charger __c__
3. Label the controller:

1. AC/DC Indicator
4. Alarm Indicator
3. Battery Indicator 1
5. Battery Indicator 2

7. Controller Display
2. Alarm Mute Button
6. Scroll Button

4. Label the cable connectors on the controller:

1. Monitor Cable / Alarm Adapter
4. Power Source

2. Power Source
3. Driveline
5. Please circle **True or False** for the following:

<p>| | | |</p>
<table>
<thead>
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<tbody>
<tr>
<td>1. A flashing red alarm requires immediate attention.</td>
<td><strong>True</strong></td>
<td><strong>False</strong></td>
</tr>
<tr>
<td>2. It is ok to have moisture, cracks, tears or punctures in your driveline.</td>
<td><strong>True</strong></td>
<td><strong>False</strong></td>
</tr>
<tr>
<td>3. It is safe to take a tub bath or swim.</td>
<td><strong>True</strong></td>
<td><strong>False</strong></td>
</tr>
<tr>
<td>4. This button is used to see all active alarms and pump information on the controller display.</td>
<td><strong>True</strong></td>
<td><strong>False</strong></td>
</tr>
<tr>
<td>5. The driveline cover must cover the controller’s silver driveline connector to protect the controller from water.</td>
<td><strong>True</strong></td>
<td><strong>False</strong></td>
</tr>
<tr>
<td>6. A controller with a blank display and no audible alarm should be replaced.</td>
<td><strong>True</strong></td>
<td><strong>False</strong></td>
</tr>
<tr>
<td>7. When an alarm occurs, line one of the controller display tells you which alarm is occurring, line two tells you what to do.</td>
<td><strong>True</strong></td>
<td><strong>False</strong></td>
</tr>
<tr>
<td>8. A green indicator light on the AC or DC adapter will indicate proper connection to an electrical outlet or a car power port.</td>
<td><strong>True</strong></td>
<td><strong>False</strong></td>
</tr>
<tr>
<td>9. When there is a controller failure alarm, you should switch to the back-up controller.</td>
<td><strong>True</strong></td>
<td><strong>False</strong></td>
</tr>
<tr>
<td>10. The controller AC/DC indicator will be green if you are using the AC Adapter or DC Adapter (car adapter) to power the controller?</td>
<td><strong>True</strong></td>
<td><strong>False</strong></td>
</tr>
</tbody>
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6. **List 2 items you should have with you when you leave your house:**

   **Answer:** Charged Batteries, back up controller, emergency contact sheet, cell phone

7. **List 2 signs or symptoms of a driveline exit site infection:**

   **Answer:** Redness, yellow or brown drainage, bleeding, pain, fever

8. **How long does one battery usually provide power?**

   **Answer:** 4-6 hours
9. Why do you take blood thinner medicine?
   Answer: To reduce the risk of clots in blood and pump

10. What should you do every time before changing from AC Adapter/Battery operation to Battery/Battery operation or before replacing a Battery?
   Answer: Check to be sure other battery is fully charged

11. When looking at the controller, how much power is remaining in a battery if there are:

   - 4 green lights  ____ %  Answer: 75-100%
   - 3 green lights  ____ %  Answer: 50-74%
   - 2 yellow lights  ____ %  Answer: 25-49%
   - 1 red light  ____ %  Answer: < 24%

12. Place a check beside activities that will cause the HVAD system to stop:

   Disconnecting the AC adapter while only one fully charged battery remains connected to the controller.

   _____

   ✔️ Disconnecting both batteries at the same time.

   ✔️ Disconnecting the driveline from the controller.

   ✔️ Unplugging the DC adapter without a back-up battery connected to the controller.

13. Two power sources should be connected to the controller at all times. What are the 3 different power options?

   Battery and ______________________ Answer: Battery
   Battery and ______________________ Answer: AC Adapter
   Battery and ______________________ Answer: DC Adapter

14. Place a check beside activities that are not allowed while on the HVAD pump:

   _____ Chest x-ray
   ✔️ MRI Scan
   ✔️ Cardiac catheterization
   ✔️ Swimming
   _____ CT Scan
   _____ Walking
15. On the battery charger there are several status light indicators. Which status light will you see if the battery is charging and is not ready for use?

_____ Blue
_____ Flashing Red
√ Yellow
_____ No lights

16. When an alarm occurs, what 3 indicators should you look for to determine the severity of the alarm?

√ A unique sound
√ Visual display (flashing RED, flashing YELLOW, or YELLOW)
_____ Vibrating
√ A message