

Assessing Skills in Medical Device Usage

Correctly executing the requested operation earned 2 points, incomplete execution earned 1 point, and non-execution resulted in 0 points.

No.	Procedural question	Correct execution
1	During the health test of the defibrillator, if the device is mistakenly charged to 50 joules and the ready-to-shock beep sounds, what action will you take?	1) Changing the energy level to 30 joules will take the device out of the ready-to-shock mode.
2	How to check the defibrillator's shock functionality?	1) Use the SELECTOR SWITCH to change the device mode from OFF to DFIB. 2) Set the energy level to 30 joules. 3) Press the CHARGE button. 4) When the device is ready to discharge and the beep sounds, press and hold the SHOCK button (on the device or paddle) to discharge the energy. 5) The device will start recording, and if "TEST OK" appears on the printed paper, you can be assured of the functionality.
3	How to prepare the defibrillator for a synchronized shock?	1) Use the SELECTOR SWITCH to select the DFIB option. 2) Set the desired energy level using the "up" and "down" buttons in the ENERGY SELECT section or on the Sternum paddle. 3) You will see "Sync On/Off" on the display. By pressing the softkey located below it, the device will be prepared for SYNC shock, and the display will change from DFIB to SYNC. 4) By pressing the CHARGE button on the device body or on the APEX paddle, the device will charge and be ready for discharge.
4	If you notice that pressing the CHARGE button does not charge the defibrillator during the test, what checks will you perform to troubleshoot this issue?	1) Check if the SHOCK button is stuck in the pressed position. 2) Check the battery charge level of the device. 3) Check the connection of the device to the mains power.
5	If the defibrillator displays a LOW BATTERY message while connected to mains power, what actions should be taken?	1) Ensure the electrical outlet is functioning properly. 2) Check the power cable of the device for any issues. 3) Disconnect the device from the power and reconnect it. 4) Finally, the device's battery should be replaced.

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6	In the event of an OCCL error on the infusion pump, what actions should be taken?	1) Check the IV set for kinks and resolve any issues. 2) Check the venous pathway for blockages or dislodgment and address them.
7	If a patient is receiving intravenous infusion using the infusion pump and the display shows that 150 milliliters of solution have been administered so far, what should be done to reset the infusion volume to zero for the remaining 2 hours of infusion?	1) Press the START/STOP button to stop the infusion. 2) Hold the VOL.CLEAR button until you hear a beep. 3) The infused volume has now been reset to zero.
8	How to set the infusion pump's infusion rate to 10 cc per hour for a filtered IV set?	1) Press the Select IV set button. 2) Select the drip factor of 20 and confirm. 3) Use the increment buttons to select the number 10. 4) Press Confirm.
9	How to place the IV set tubing in the infusion pump?	1) Open the pump door. 2) Press the Tube Clamp inward. 3) Pass the tubing through the grooves on the inner surface of the device so that it runs parallel to the Finger cassette. 4) Close the pump door.
10	How to set the drip factor for administering a solution with a regular IV set on the infusion pump?	1) Turn on the device by pressing the Power button. 2) Activate the drip factor setting by pressing the SELECT IV SET button. 3) Use the up and down arrow buttons to select 15 drops/milliliter. 4) Press the SET/CONFIRM button to confirm.
11	How to change the mode of the bedside monitoring device from ADULT to PEDIATRIC?	1) Access the HOME WINDOW by pressing the HOME button on the front panel or by turning the rotary control in the Header area of the display. 2) Select the SETUP option. 3) Once the SETUP WINDOW opens, navigate to the PATIENTS CAT section. 4) Press and select the PEDIATRIC option to change the device mode.

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12	How to define the temperature alarm range for the patient between 37 to 39 degrees on the bedside monitoring system?	1) Use the rotary control to navigate to the numeric area on the display. 2) When positioned over the temperature section, the color of the box will change; then press the rotary control. 3) Once the TEMP WINDOW opens, go to the T1 LIMIT section. 4) Press the rotary control on the left number to set the lower alarm limit (37 degrees). 5) Press the rotary control on the right number to set the upper alarm limit (39 degrees). * Ensure that the TEMP ALARM option is set to ON.
13	In assessing the SPO2 of a patient with low perfusion using the bedside monitoring system, what measures can be taken to maximize the device's diagnostic capability?	1) Use the rotary control to navigate to the numeric area on the display. 2) When positioned over the SPO2 section, the color of the box will change; then press the rotary control. 3) Once the SPO2 WINDOW opens, go to the SPO2 SENSITIVITY MODE section. 4) Press and select the MAX option to maximize diagnostic capability.
14	How to reduce or eliminate noise in the ECG section of the bedside monitoring system, what measures can be taken?	1) Use the rotary control to navigate to the numeric area on the display. 2) When positioned over the HR section, the color of the box will change; then press the rotary control. 3) Once the ECG WINDOW opens, go to the ECG FILTER section. 4) Press and select the MONITOR option to reduce noise.
15	If a patient in the CCU is under cardiac monitoring and you observe a suspicious case of bi-geminy PVC on the monitor above the patient's head, which feature of the monitoring device would you use for a closer examination?	1) Press the Freeze button to pause the monitoring system for a more detailed review.

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16	How to place a 50-cc syringe in the syringe infusion pump?	1) Release the side lock of the device by pressing it upwards, allowing you to adjust the arm length according to the syringe length. 2) The front lock of the device can be released by rotating it 45 degrees to the left, allowing you to adjust it according to the syringe diameter. 3) Place the filled syringe with the desired medication in the groove at the end of the device's arm and then push it inward until the lock closes for protection. 4) Adjust the front lock to ensure the syringe is securely positioned in the pump.
17	How to set the infusion rate of the solution using the syringe infusion pump to 5 milliliters/hour?	1) The F button on the device allows you to switch between different functions. 2) The first function you will be able to adjust is the infusion rate. 3) Use the device buttons to enter the desired rate. 4) Press the START/STOP button to begin the infusion flow.
18	What are the steps to clean the external surface of the syringe infusion pump while in use?	1) Ensure the device is disconnected from mains power. 2) Use a soft cloth for cleaning. 3) Dampen the cloth with water or moisten it with 70% alcohol. 4) After cleaning the device, dry it with another cloth.
19	How to change the infusion rate to 0.1 cc/hour while using the syringe infusion pump?	1) Press the stop button to halt the infusion. 2) Then, use the decrement button or touch the display to enter the number 0.1. 3) Press the start button to begin the infusion.
20	How to immediately inject 0.5 cc of medication while using the syringe infusion pump?	1) Press the stop button. 2) Press the purge button until the number 0.5 appears on the display. 3) Press the start button to continue the infusion.