Exam Report: 9.3.7 Practice Questions

Date: 3/25/2020 5:51:47 pm                                    Candidate: Garsteck, Matthew
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## Overall Performance

Your Score: 43%

Passing Score: 80%

View results by:  ◯ Objective Analysis   ⦿ Individual Responses

## Individual Responses

▼ **Question 1:**                    <u>Correct</u>

Which of the following battery types offers the greatest storage capacity in the smallest amount of space?

- ◯ Nickel cadmium (NiCad)
- ◯ Nickel metal hydride (NiMH)
- ◯ Carbon
- ➡ ⦿ Lithium ion (LIB)

### Explanation

Lithium ion (LIB) batteries offer the greatest storage capacity in the smallest amount of space. Nickel cadmium (niCad) and nickel metal hydride (NiMH) batteries take up more physical space than lithium ion batteries. Carbon batteries are small, but have significantly less charge than lithium ion batteries. They are commonly used in remote controls, flashlights, toys, or transistor radios, where the power drain is not too heavy.

### References

TestOut PC Pro - 9.3 Laptop Power Management
[e_power_pp6.exam.xml Q_MOB_PWR_NOTEBOOK_COMPONENTS_02]

▼ **Question 2:**                    <u>Incorrect</u>

Which of the following battery types has the greatest need to be completely drained before being recharged?

- ◯ Carbon
- ➡ ◯ Nickel cadmium (NiCad)
- ◯ Lithium ion (LIB)
- ⦿ ~~Nickel metal hydride (NiMH)~~

### Explanation

Nickel cadmium (NiCad) batteries experience a memory effect. If the battery is not completely drained before being recharged, the remaining charge in the battery eventually becomes unusable. Draining the battery completely on occasion ensures that the battery can access its full capacity. Nickel metal hydride (NiMH) and lithium ion (LIB) batteries do not have the memory effect and do not need to be completely drained. However, all batteries have a specific lifetime. After a period of time, the battery becomes less able to hold a charge and should be replaced.

### References

TestOut PC Pro - 9.3 Laptop Power Management
[e_power_pp6.exam.xml Q_MOB_PWR_NOTEBOOK_COMPONENTS_03]

▼ **Question 3:** Correct

From your laptop, you have been working on a large project that has required you to open a lot of items (programs, files, etc.). It is time to leave the office and make the two-hour journey home. You will be working on this project a bit more when you arrive at home. Your computer's battery is failing and only has a very short life span (about one hour) before your computer loses power.

When you arrive home and open the lid of your laptop, nothing happens. After plugging in your computer and powering it on, you find that all of your programs and files have been closed.

To troubleshoot this, you open Control Panel and navigate to the settings that control what your computer will do when the laptop lid is closed.

Which of the following power settings MUST you choose to prevent the same problem in the future?

➡ ⦿ When I close the lid: Hibernate

○ When I close the lid: Shut down

○ When I close the lid: Standby

○ When I close the lid: Sleep/Suspend

## Explanation

Hibernate saves the state of your computer to the hard disk and completely powers off your computer. When the devices resumes, the saved state is restored to RAM, and you can pick up where you left off.

Sleep, suspend, and standby are all different terms that have been used for various versions of Windows. Regardless of which option is available for your version of Windows, when selected, these do not turn off your computer. Instead, they put the computer and all peripherals on a low power consumption mode. Since your battery is not very good and can only power your computer for a short time, these options run the risk of the computer losing power, resulting in the closure of your programs and files.

Shut down will close all files and programs, and all power is terminated.

## References

TestOut PC Pro - 9.3 Laptop Power Management
[e_power_pp6.exam.xml Q_NB_PMGM_HIBERNATE]

▼ **Question 4:** Incorrect

You want to configure Power Plans on your Windows 10 laptop computer. Which of the following can do this? (Select TWO.)

☐ Click Start and then open the Control Panel. Double-click the System icon. On the Advanced tab, click the Settings button for performance.

☐ Click Start and then right-click Computer and select Properties. Click Advanced System Settings.

☑ ~~Right-click the Desktop and select Properties. On the Screen Saver tab, click the Power... button.~~

➡ ☐ In the Notification Area, double-click the battery icon. Click Power Options.

➡ ☑ Go to Settings > System > Power & sleep.

## Explanation

To edit Power Plans in the Windows 10 operating system, go to Settings > System > Power & sleep. Alternatively, you can also click the battery icon in the Notification Area for Power Options.

## References

TestOut PC Pro - 9.3 Laptop Power Management
[e_power_pp6.exam.xml Q_NB_PMGM_NOTEBOOK_POWER_01]

▼ **Question 5:** Incorrect

Which ACPI power state retains the contents in RAM, but turns all other components off?

- ⊙ ~~Sleep~~
- ○ On
- ○ Hibernate
- ➡ ○ Suspend

## Explanation

The Suspend power state allows the system RAM to retain contents. All other components are turned off. This power state can restore the computer more quickly than hibernation. In the On state, no power management is being used. In the Standby state, the CPU is off and all peripherals are off; however, the RAM retains contents. Like Suspend, this allows you to restore the computer more quickly than from hibernation. In Hibernation, all components are off, and the data in memory is saved to a file on the hard disk.

## References

TestOut PC Pro - 9.3 Laptop Power Management
[e_power_pp6.exam.xml Q_NB_PMGM_NOTEBOOK_POWER_02]

▼ **Question 6:**                          Correct

You want to use Hibernation on your Windows notebook. What does it need to have?

- ○ UPS
- ➡ ⊙ Enough free hard drive space
- ○ A minimum of 1 GB of RAM
- ○ A Pentium IV or better processor

## Explanation

Hibernation saves everything in RAM to the hard drive. Therefore, you need at least as much free disk space as you have RAM. Hibernation does not depend on the processor capabilities or the amount of RAM. A UPS is used to supply power to a device if the regular AC power is interrupted.

## References

TestOut PC Pro - 9.3 Laptop Power Management
[e_power_pp6.exam.xml Q_NB_PMGM_NOTEBOOK_POWER_03]

▼ **Question 7:**                          Incorrect

You have just purchased a used laptop, and you want to configure it to hibernate when you press the power button. You edit the Power Options settings and enable hibernation, then you configure the power button to trigger hibernation. Everything works fine for several weeks. However, one day when you press the power button, the laptop does not hibernate.

Which of the following will BEST resolve this issue?

- ○ Enable ACPI support in the BIOS.
- ⊙ ~~Configure the laptop to use the Max Battery power scheme.~~
- ○ Charge the battery before pressing the power button.
- ➡ ○ Free up disk space.

## Explanation

The computer must have sufficient disk space to enter hibernation. The contents of RAM are saved to the hard disk. ACPI support is already enabled; otherwise, you would not have been able to configure

hibernation in the first place. Changing the power scheme or charging the battery has no effect on a device's ability to enter hibernation.

## References

TestOut PC Pro - 9.3 Laptop Power Management
[e_power_pp6.exam.xml Q_NB_PMGM_NOTEBOOK_POWER_04]