**DV162\_43\_PAS\_On Expansion Cards**

**Possible Answers Sheet**

Q1. What is one way to extend and add to the capabilities of a system?

Ans: Additional Hardware to the System through the use of Expansion Cards.

Q2. How do you install an expansion card?

Ans: First Remove the top of the system case, find an available expansion slot, and place the card into that empty slot. Now gently push the card into place, make sure that the holes, or the keys, that are in the card match the keys that are part of the expansion slot. And then push the card all the way down.

Q3. What type of card might be installed?

Ans: We might have installed a sound card that could provide output of high-end audio.

Q4. What might the sound card provide?

Ans: Sound Card could provide output of high-end audio.

Q5. What kind of audio outputs does this sound card provide?

Ans: Highest Quality Audio.

Q6. What should I do to check what other options I have with my sound card?

Ans: You should check the Documentation of Sound Card.

Q7. Do I need an external video card if I only need basic video capabilities?

Ans: You may not need an external video card if you simply need basic video capabilities because that’s going to be provided by your CPU.

Q8. What is a discrete graphics card?

Ans: Discrete graphics card is External Video Adapter Card which is different than integrated video card on the motherboard.

Q9. What types of interfaces are typically found on the back of a computer with an integrated graphics card?

Ans: VGA, DVI or HDMI interfaces are typically found on the back of a computer with an integrated graphics card.

Q10. How do we use the higher-end capabilities of this card?

Ans: We need to plug the monitor into one of the card interfaces that are directly connected to this video card.

Q11. What do you need to take advantage of a discrete graphics processor?

Ans: We need to plug directly into this card to be able to take advantage of the discrete graphics processor.

Q12. How do you provide live streaming?

Ans: We need some type of external card to receive that video signal.

Q13. What type of interface does the video capture card have?

Ans: PCIe or Peripheral Component Interconnect Express Interface.

Q14. What type of video input does the card support?

Ans: Two different types of high level video input. This first is the well-known HDMI connector. So we can take HDMI from a camera or any other video source and provide that as an input into this video capture card.

Q15. SDI stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Ans. Serial Digital Interface.

Q16. How is the SDI brought in?

Ans: SDI brought in through Coax.

Q17. Does a motherboard come with a wired ethernet connection?

Ans: Yes, Many motherboards come with a wired ethernet connection integrated into the motherboard itself.

Q18. What is a Network Interface Card?

Ans: NIC is an Ethernet Interface.

Q19. When might you need to add an additional Network Interface Card?

Ans: When the motherboard does not come with an integrated NIC interface then we need to add an additional NIC. Or when we need multiple network connections we need to install a multi-port NIC.

Q20. What is the process for installing a network interface card?

Ans: First find a slot that’s available and then push the adapter card into that available slot.

Q21. What should you do before purchasing an adapter card?

Ans: We need to make sure the card is compatible with our system. Also check our motherboard documentation and determine how many different slots are available and what those slots happen to be. We also need to look at the specifications of the adapter card and make sure that the adapter card matches the specifications of your motherboard.

Q22. What type of software do we need to use the adapter card?

Ans: We need a proper driver for the adapter card.

Q23. Why should I download the latest version of a device driver?

Ans: The drivers that might ship with our hardware are almost always out of date. So it’s a good best practice to check the manufacturer’s website and download the latest version of the device driver

Q24.How do I install a driver?

Ans: You can use Window Device Manager to Install a driver.

Q25. What do you do when you need to install a new device driver?

Ans: We will Identify the device then find the required driver and install it from Window Device Manager.

Q26. How do you check if the operating system is using the new hardware properly?

Ans: We can check Device Manager to see the status of that system to confirm that the operating system is using that new hardware properly.