**DV162\_28\_PAS On SATA Device Cables**

**Possible Answer Sheet**

Q1. What does SATA stand for?

Ans: Serial AT Attachment or Serial Advanced Technology Attachment.

Q2. What was the data transfer rate of SATA revision 1.0?

Ans: 1 and ½ Gbps over a 1 meter cable.

Q3. How fast is SATA revision 3.2?

Ans: 16 Gbps over 1 meter cable.

Q4. SATA revision 2.0 doubled that speed to \_\_\_\_\_\_\_\_\_\_ gigabits per second.

Ans. 3

Q5. What type of connection is used for external storage devices?

Ans: eSATA or External SATA.

Q6. What is the maximum length of the SATA cable?

Ans: 2 meters.

Q7. What type of connector is used for data transfer in a hard drive?

Ans: The Smaller 7 pin Connector in SATA Connector used for data transfer in a hard drive.

Q8. A larger \_\_\_\_\_\_ pin connector is used to power the device.

Ans. 15.

Q9. The hard drive also has a power connector for a \_\_\_\_\_\_\_\_\_\_\_.

Ans. Molex Connector.

Q10. How many cables are required to connect a storage device using a SATA connection?

Ans: Two cables required, One for Power and other for data.

Q11. What type of connections are used for power and data?

Ans: Power uses 15 Pin Connector and Data Uses 9 Pin Connector.

Q12. What type of connectors does this motherboard have?

Ans: Motherboards have SATA revision 2 and SATA revision 3 interfaces/connectors, these connectors also have different colors to designate the difference between the versions. The colors can change depending on the motherboard.

Q13. What are the colors of the SATA connections?

Ans: SATA connections do not have any standardized colors, it depends on motherboard and vendor but in the video there were black and yellow SATA connections.

Q14. What are the two types of connections needed to connect a storage device to a motherboard?

Ans: SATA Data cable and SATA Power Cable or Molex Cable.

Q15. What is eSATA?

Ans: External Version of SATA.

Q16. What kind of cable is needed to connect an eSATA drive to a computer?

Ans: Needed an eSATA cable. Which have an eSATA connector on each end.

Q17. If we look at a SATA interface on your motherboard, it has this \_\_\_\_\_\_\_\_\_ shape associated with it.

Ans. L

Q18. What type of cables are needed to connect an internal SATA drive?

Ans: SATA Cable.

Q19. What type of connection options are available for many external storage drives?

Ans: These External drives have FireWire, USB 2 and eSATA connections.

Q20. How do you connect an external storage device with an eSATA connection?

Ans: By plugging eSATA cable into the eSATA interface.