**Pakistan School , Kingdom of Bahrain**

**E- Support and Learning Material / Session 2020-2021**

**Subject: Computer Grade: 7**

**Book: Computer Education For Grade 7 FIRST TERM**

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 **Unit 1: Hardware Basics (Week 3) Pg. No: \_\_\_6, 7\_\_\_**

**Computer:**

**Objectives: The Student should be able to:**

* **Recognize and explain Expansion Slots**
* **List the Uses of Expansion Slots in Computer**

**Topic: Expansion Slots**

Expansion Slots is a space available on the Motherboard where an Expansion Card can be inserted to add new capacities to a computer. The number of slots on the Motherboard, determines the possibility of future expansion in a computer.

**Uses of Expansion Slots**

Some of the important Expansion Slot uses:

* **AGP**: The accelerated graphic port is a high-speed communication slot for attaching a video card to the Motherboard. It is used for 3D graphic cards.
* **PCI:** Peripheral Component interconnect slot is used to connect Modem cards, Audio cards, etc.
* **ISA:** Industry Standard Architecture Slot is used to connect Sound/ VGA cards etc. It is now replaced with PCI slots.

**Worksheet:**

**Choose the Correct Answer**

1. Expansion Card and Expansion Slots are used to increase the \_\_\_\_\_\_\_\_\_\_\_ of a computer.
2. Space available on the motherboard where Expansion card can be inserted are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. Expansion Slot b. Expansion Cards c. Processor d. RAM

**Homework:**

Q#1: Write a short note on Expansion Slot?

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 **Unit 1: Hardware Basics Pg. No: \_\_\_7\_\_\_**

**Computer:**

**Objectives: The Student should be able to:**

* **Identify Barcode**
* **Describe Barcode Reader**

**Topic: Barcode**

ABarcode is a series of lines. These lines and spaces are of different width. The Barcode uses a sequences of vertical bars and spaces to represent product information like product name or represents information about the product manufacture, manufacturing date, expiry date etc. It is also called **Universal Product Code (UPC).** Barcodes are printed on grocery items, identification cards, and post mail to identify a particular product number and some other information.

**Barcode Reader**

Barcode reader is an input devices used to read information contained in a barcode. A barcode reader captures and translates Barcode into numbers and letters and send data to the computer. The software in the computer coverts it into useful information.

**Worksheet:**

**Choose the Correct Answer**

1. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_uses a sequence of Vertical Bars and spaces to represent information.
2. The Barcode is also called\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an electric device use to read Barcode.

a. Fingerprint Reader b. Barcode Reader

c. Type Writer d. Robot

**Homework:**

Q#1: How does Barcode reader work?

Q#2: Write a note on Barcode?

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 **Unit 1: Hardware Basics Pg. No: \_\_\_7, 8\_\_\_**

**Topic: Fingerprint Reader**

**Objectives: The Student should be able to:**

* **Describe Fingerprint Reader**

Fingerprint Reader is an input devices for identifying a person, based on his finger prints. It is used to read and identify the unique pattern of a finger. The fingerprint reader consists of a sensor for scanning a Fingerprint and sends this information to the computer. The computer processor stores that fingerprint information to the fingerprint database. The software then compares and matches the scanned fingerprint with already stored fingerprints. If it is matched then the person is allowed to do the task.

**Uses of Fingerprint reader**

Fingerprint devices are mostly used for the security purpose. Now-a-days fingerprint device is small enough to be used in a laptop for security. Fingerprint readers play vital role in employee’s identification and security in large government organizations and corporations.

**Worksheet:**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_ Reader is a device for identifying a person based on his fingerprints.
2. The fingerprint reader consists of a sensor for scanning a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ stores that fingerprint information to the fingerprint database
4. \_\_\_\_\_\_\_\_\_\_\_ is mostly used as security purpose device.

a. Barcode Reader b. Robot c. Fingerprint Reader d. CPU

**Homework:**

Q#1: What is Finger print reader? Give its Uses and Importance.

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 **Unit 1: Hardware Basics Pg. No: \_\_\_8, 9\_\_\_**

**Topic: Robots**

**Objectives: The Student should be able to:**

* **Describe Robots**
* **Uses of Robots**

A robot is an automatic machine capable to perform variety of task due to programmed instructions.

**Uses of Robots:**

Some of the application where Robot are used:

* Robots have taken over the duties of dangerous and dull jobs from humans, allowing greater productivity.
* Robots never get tired, therefore, they can perform respective tasks for long hours in factories.
* Farmers have taken advantages of this new technology with automated harvesters.
* Waste disposal is using robots.
* Medical industry benefits from robots

**Worksheet:**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ have taken over the duties of dangerous and dull jobs from human.
2. Waste disposal is using \_\_\_\_\_\_\_\_\_\_\_.
3. Robots are \_\_\_\_\_\_\_\_\_\_\_.

a. Human b. Animal c. Doctors d. Machines

**Homework:**

Q#1: What are Robots? How are they making our lives easy?