**TAKORADI TECHNICAL UNIVERSITY**

**FACULTY OF APPLIED SCIENCES**

**DEPARTMENT OF INFORMATION & COMMUNICATIONS TECHNOLOGY**

**END OF SECOND SEMESTER EXAMINATION - 2017/2018 - EVENING**

**Course Code: 1CT 220 Course Title: Hardware Technology II**

**Time Allowed: 2 1/2 hours Mark: 60**

**Section A: 20 marks**

**ANSWER QUESTION ONE - COMPULSORY**

1a. what is packaging a microprocessor? What are the different packaging available? (5 marks)

1b What are the differences between Multitasking and Multiprocessing? (3 marks)

1c. Describe into details what a Form Factor is (12 marks)

(Total Marks for A: 20)

**Section B: 40 marks**

Answer **FOUR Major Questions** in this section as per their respective instructions.

1a What is the purpose of Hardware Maintenance? (8 marks)

1bWhat is LGA? (2 marks)

(Total Marks: 10)

2a.   Differentiate between Serial and Parallel ports briefly. (4 marks)

2b. What is the importance of Preventive Maintenance? (6 marks)

(Total Marks: 10)

3. Types of Drive Interfaces Hard drives and optical drives are manufactured with different interfaces that are used to connect the drive to the computer. When you install a storage drive in a computer, the connection interface on the drive must be the same as the controller on the motherboard.

Some common drive interfaces are as follows: IDE, EIDE, PATA, SATA, FDD, and SCSI. Explain the functions of the listed drives (10 marks)

4a**.** What is the difference between FSB and BSB? (2 marks)

4b. How can you format a floppy? What is happening if you do so? (2 marks)

4c. Briefly explain what a sector on a hard disk is? (2 marks)

4d. what could cause a fixed disk error? (2 marks)

4e.Describe the boot sequence briefly. (2 marks)

(Total Marks: 10)

5a. Maintenance is key in running any machinery. In maintaining your computer’s Hard disk, how would you go about it to ensure effective maintenance? (8 marks)

5b. Differentiate between Serial and Parallel ports. (2 marks)

(Marks: 10 marks)

(Total Marks for B: 40)

**END OF PAPER**