**TAKORADI TECHNICAL UNIVERSITY, TAKORADI**

**FACULTY OF APPLIED SCIENCES**

**DEPARTMENT OF INFORMATION & COMMUNICATIONS TECHNOLOGY**

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

**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. Suppose that you have a maintenance package that identifies several possible field replaceable units (FRUs) that will resolve the problem. What should you do after turning the power off? (3 marks)

1b. Briefly describe a ROM BIOS (4 marks)

1c. Describe in detail what a Form Factor is (13 marks)

**Section B: 40 marks**

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

2a. Exhibit thorough knowledge on the sequence of booting a Computer. (10marks)

2b. What is Preventive Maintenance? (5 marks)

2c. What is the importance of Preventive Maintenance? (5 marks)

(Total Marks: 10)

3. What is a motherboard? Explain both into details. (10 marks)

4a**.** Explain what a BIOS is. (2 marks)

4b. From which location is the 1st computer instruction on boot-up available? (2 marks)

4c. When referring to instruction words, a mnemonic is: (2 marks)

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

4e.What gets modified when changing the system start-up boot sequence? (2 marks)

(Total Marks: 10)

5. Your computer is not working and from the look of things, it has no indication of Power.

You need to trouble-shoot. How will you go about the Power Supply Troubleshooting? (10 marks)

**(Marks: 40 marks)**

**(Grand Total Marks: 60)**

**END OF PAPER**