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**First Semester Examination (2019/2020) Academic Session**

**Course Title: Assembly Language**

**Course Code: CSC 715 Course Unit: 3 Time: 2 1/2 hours**

**Instruction: Answer any Four (4) Questions**

1a Discuss **3** Basic Assembly Language syntax.

1b Briefly Discuss the **3** Operations of a Central Processing Unit.

2a What do you understand by Memory Segment?

2b Explain any **3** Memory Segment in Assembly Language

3a Explain briefly File Descriptor as it relates to Assembly Language File Management.

3b Discuss any **5** file Handling Operations in Assembly Language

4a Briefly Discuss any **5** types of Assembly Registers

4b List and discuss any **3** basic Modes of Addressing

5a List and discuss with an example each on any **2** Logical Instructions in Assembly Language

5b List and discuss with an example each on any **2** Arithmetical Instructions in Assembly Language

6a Write an Assembly Language Program that will find the sum of numbers from 1 to 10

6b Write the Assembly Language Syntax for the Following Expressions:

1. X + Y = Z
2. A\*B = C

7a Convert the following Hexadecimal Numbers to Binary

1. FCAB
2. EFFA
3. CDFE

7b What is an Assembler?

7c Complete the missing section on below Table showing common Type Specifiers

|  |  |  |
| --- | --- | --- |
|  | **TYPE SPECIFIER** | **BYTES ADDRESSED** |
|  | BYTE |  |
|  | WORD |  |
|  |  |  |
|  | QUADWORD |  |
|  | TBYTE |  |