**DCA 2203 System Software**

**Assignment Set-I**

1. Explain the role and functionality of the segment registers in the Bus Interface Unit (BIU) of a microprocessor. Describe the purpose of the Code Segment (CS) register and the Stack Segment (SS) register, and how they interact with other components of the microprocessor.

2. What is two pass Assembler? Define its advantages Over Single-Pass Assembler.

3. Define the difference between macro and Function. Explain macro expansion and nested macro calls with the help of example.

**Assignment Set-II**

4. Define the different phases of the compiler. Explain the importance of the Symbol table in a compiler.

5. Explain the differences between stream editors, line editors, screen editors, and structure editors, providing examples of each type. Discuss how each type of editor is suited to different editing tasks and user environments.

6. Explain the main components of android architecture. Define the role of Dalvik Virtual Machine (DVM) in Android.

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