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| **East West University**  **Department of EEE**  **EEE 302: Microprocessors & Interfacing**  **Semester: Spring 2022**  **Course Instructor: FMA**  **Date: April 4, 2022**  **Section-1**  **MAKE UP QUIZ-2** | |  | | --- | |  | |

**Time: 25 minutes Total Marks: 20**

Answer all the questions. Do not use notes, books and mobiles

1. Suppose, we have the following values: **[6 x 2=12 marks] [CO2/APPLY]**

For registers,

**[DS] =4C00h [ES] = 73B0h [CS] = 88D0h [SS]= 28C0h**

**[BX] = 0894h [SI] =02ADh**

**[DI] = 09DCh [BP]=1BAFh.**

Generate 20-bit physical address for the following commands and mention is it aligned or misaligned data transfer for each case.

1. **MOV CL, 0Eh [BP+SI]**
2. **MOV DX, 312Eh [BP]**
3. **MOV AX, CS: [BX] [SI] 11h**
4. **MOV [BP+DI], AX**
5. **MOV DX, [BX] 1033h**
6. **MOV AX, [SI]**
7. Mention the reasons of the following invalid commands: **[CO2/APPLY]**

[4 x 2 =8 marks]

1. **MOV AX, [901010h]**
2. **MOV SS, DS**
3. **MOV AX, 000h**
4. **MOV [0902h], [BX]**