



**East West University**  
**Department of Computer Science and Engineering**  
**CSE 325(3) Class Test 01**  
**Fall 2018 Semester**  
**Full Marks: 10 Time: 20 minutes**

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Name: \_\_\_\_\_

ID: \_\_\_\_\_

1. Is it possible to run an application software without an OS? Why or why not? (2.5)
2. Why do we need a shell although kernel performs all jobs of an operating system? (2.5)
3. Which method will you use to establish communication between H/W controller and CPU between polling and interrupt? Give logic supporting your decision. (2.5)
4. Load 0x358, al (instruction 1)  
Out 0x20, al (instruction 2)

Above given code was generated in an unknown processor. What kind of IO communication that CPU uses, PMIO or MIMO? What will be the state of IO/MEM selection line during instruction 1 and instruction 2? (2.5)

**Start writing from here:**