University of Asia Pacific

Department of Computer Science & Engineering

Mid-Semester Examination Spring-2020

Program: B. Sc Engineering (3rd Year/ 2nd Semester)

Course Title: Peripheral & Interfacing Course No. CSE 315 Credit: 3.00
Time: 1.00 Hours. Full Marks: 60

There are **Three** Questions. Answer all of them. All questions are of equal value/Figures in the right margin indicate marks.

Please note that there are two question at number 3, answer only one of them.

- 1. "Peripheral and Interfacing, refers to the same thing in Computer Science."
 - a. Here what do we understand by the two afore-mentioned terms? Write some [05] examples:
 - b. What do you think, Is the statement true/false? Explain your answer with [15] detailed example.
- 2 a. What is the functionality of **analogWrite**()? Write an example sketch to show the functionality briefly. [10]
 - b. What is Function Prototyping in Arduino? Write different modules of [10] **Serial.Print()** with proper explanation and example.
- 3. a. You will have to operate some variables of Arduino sketch bit by bit. In this situation, which type of operator will you use? Write a description upon that. (Describe all operators with example of that group.)
 - b. What is Shield in Arduino? Describe the importance of L293D and Relay [10] Module with appropriate examples.

Or,

- 3. a. What does the term IoT means? Mention some of the applications of IoT in modern life with Example. [10]
 - b. Suppose, you want to design a solution for healthcare and want to use IoT for it. Which domain will be used in that case? Explain the groups of that domain.

^{*}In Arduino environment, sketch and code are synonymous.