University of Asia Pacific
Department of Computer and Science
CSE 315 (Peripheral and Interfacing)

Full Marks: 20   **Writing Time: 30 minutes**
                                                       Upload Time: 05 minutes

Instructions:
   a. Please write the answers on your copy (hardcopy) and make it a PDF. Upload the PDF on the assignment named "Quiz-4 Copies" I have created in the Google Classroom.
   b. While giving exam you must switch your camera on.
   c. If you are unable to switch on the camera you will face a viva shortly on the same syllabus. Marks distribution in that case will be decided on your performance.

1. Suppose, you are at the center of Figure 1. Now you have to take an input, the input will be the last three digits of your registration id. Rotate the servo motor up to the taken input and measure the distance (e.g., length of OA) between you and the circumference of the circle. Measure the area of Figure 1.
Write a code to solve the aforementioned problem.   20

[Please note that, the distance you have received from the sonar sensor is the radius of the circle. The servo will be at 0° initially.]
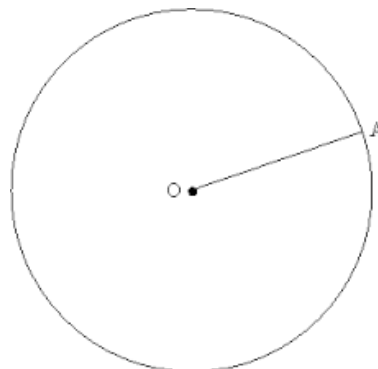

Figure 1: A circle