



Dept. of Computer Engineering  
First Quiz, First Semester: 2010/2011

Course Title:	Topics in Computer and Software Engineering	Date:	10/11/2010
Course No:	630593	Time Allowed:	10 minutes
Lecturer:	Dr. Qadri Hamarsheh	No. Of Pages:	1

**Information for candidates**

1. This Quiz paper contains 1 question totaling 5 marks
2. The marks for parts of question are shown in round brackets.

**Advices to candidates**

1. You should attempt all sub questions.
2. You should write your answers clearly.

**Question 1**

(5 marks)

a) Write a Matlab function called '**bwcount**' that accepts a binary image as an input and returns as an output two parameters:

1. The first parameter is the number of zeros intensity values in the image.
2. The second parameter is the number of ones intensity values in the image. (3 marks)

b) Then in matlab command mode do the following:

- Read the image '**pout.tif**' of class **uint8**.
- Covert this image to black and white image with 0.4 threshold.
- Display the obtained binary image.
- Call **bwcount** function to calculate zeros and ones in this image. (2 marks)

**Hint: Use Low-Level Processing (for loop structure)**

**GOOD LUCK**