University of Menoufia Faculty of Electronic Engineering Dept. of Industrial Electronics and Control Eng. Subject: Elective 2 Image processing (ACE 326)



Mid-Term Exam 2018/2019 3<sup>rd</sup> Year Undergraduate Students Time allowed: 1 hours

Date: 2/04/2019

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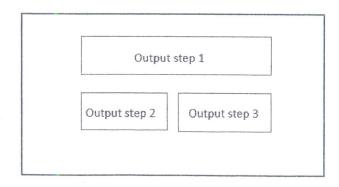
## Answer ALL the following questions

Q1)	Complete	the	following	sentences
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) Complete the following sentences:
1- Image sharpening based digital image processing is considered aslevel image processing.
2- The purposes of image processing are
3- Among applications of machine vision systems are
4- For 6x6 grayscale image with one bit for each pixel. The number of graylevels is
5 is a MATLAB function to save processed image.
(11 degrees)

Q2) Write a Matlab script code to obtain the following outputs:

- (1) Load an image called PCB.tif.
- (2) Increase its brightness.
- (3) Enhance its contrast by histogram equalization method.
- (4) Display each output in the same window as below



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-Answer:			 
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(4 degrees)

Best Wishes.

Dr. Ghada El Banby.