



FINAL
Examination Paper

(COVER PAGE)

Session : August 2014

Programme : Diploma In Information And Communication Technology (DICTN)

Course : ICT2108 / CSC1108 : Digital Image Editing

Date of Examination : December 8, 2014

Time : 8:00am – 10:00am Reading Time: Nil

Duration : 2 Hours

Special Instructions :

Answer any **FOUR (4)** questions.

Materials permitted : Non-Programmable Calculator

Materials provided : Nil

Examiner (s) : Ms. Ng Ruoh Ling, Koagella Utandy.

Moderator : Ms. Robina Tinawin

This paper consists of 4 printed pages, including the cover page.

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DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY (DICTN)
 ICT2108: DIGITAL IMAGE EDITING
 FINAL EXAMINATION: AUGUST 2014 SESSION

Instructions: This paper consists of **SIX (6)** questions. Answer any **FOUR (4)** questions in the answer booklet provided. All questions carry equal marks.

Question 1

- (a) Define digitization. List **THREE (3)** advantages of digitization. (8 marks)
- (b) List **SIX (6)** areas with example each where multimedia application is applied. (6 marks)
- (c) Calculate the file size in bytes of a black and white image which has the height and width of 240 x 320 pixels. (5 marks)
- (d) Identify and explain **TWO (2)** compression techniques used in computer graphics. (6 marks)

Question 2

- (a) Make a comparison between JPEG, PNG and GIF graphic formats. (9 marks)
- (b) Provide **THREE (3)** differences between RGB and CMYK color models. (6 marks)
- (c) Name and discuss any **FOUR (4)** layer styles found in Photoshop. (10 marks)

Question 3

- (a) Identify a way to perform each of the following in Photoshop:
 - (i) Resize an image without resizing the content
 - (ii) Resize an image with the content resized as well
 - (iii) Expand an image size (6 marks)
- (b) Identify and discuss **FIVE (5)** different types of transformation of raster image. (10 marks)

(c) Explain the following terms used in Photoshop's layer:

- (i) Layer blending
- (ii) Layer mask
- (iii) Layer opacity

(9 marks)

Question 4

(a) Explain **THREE (3)** characteristics of vector graphic and provide **TWO (2)** advantages of using vector graphics.

(10 marks)

(b) What is the function of noise filter? Name **THREE (3)** noise filters.

(6 marks)

(c) Discuss the following repairing tools:

- (i) Clone stamp
- (ii) Healing brush
- (iii) Patch

(9 marks)

Question 5

(a) Identify and explain **FIVE (5)** settings you can perform in optimizing GIF format.

(10 marks)

(b) What is image dithering? Discuss **THREE (3)** methods of image dithering.

(9 marks)

(c) Explain the following terms used in optimizing images for web:

- (i) Progressive
- (ii) Selective
- (iii) Perceptual

(6 marks)

Question 6

(a) Discuss **FOUR (4)** options to lock a layer in Photoshop.

(8 marks)

(b) Identify and explain the **TWO (2)** common techniques used to soften the edges of a selection of an image.

(6 marks)

(c) Explain the use of rulers, guides and grids in Photoshop.

(6 marks)

(d) Explain the following terms:

(i) Alpha channel

(ii) Layer mask

(5 marks)

-THE END-
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