FINAL
Examination Paper

(COVER PAGE)

Session : August 2014

Programme : Diploma In Information And Communication Technology (DICITN)

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.
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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