



FINAL
Examination Paper

(COVER PAGE)

Session : August 2014

Programme : Diploma In Information And Communication Technology (DICTN)

Course : ICT2105 / CSC1105: Interactive Multimedia

Date of Examination : December 10, 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) : Mr. Andrew Ho Mun Wah, Eric Cheah Chin soon.

Moderator : Ms. Noor Hasrina

This paper consists of 3 printed pages, including the cover page.

INTI INTERNATIONAL COLLEGE SUBANG

DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY (DICTN)
ICT2105: INTERACTIVE MULTIMEDIA
FINAL EXAMINATION: AUGUST 2014 SESSION

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) With the use of appropriate illustrations, explain Bitmap image and Vector graphic. Provide **TWO (2)** examples of file extensions for each. (10 marks)
- b) List and briefly explain **FOUR (4)** characteristics of animation media data. (8 marks)
- c) Define tweening. Identify and describe **TWO (2)** types of tweening techniques. (7 marks)

Question 2

- a) State **FIVE (5)** motivations for conducting user evaluation or testing. (5 marks)
- b) Name **FIVE (5)** important multimedia team members. Explain at least **ONE (1)** specific responsibility for each of the multimedia team members named. (10 marks)
- c) List and briefly explain **FIVE (5)** exclusive rights for copyright owners of multimedia work. (10 marks)

Question 3

- a) List **FIVE (5)** important considerations when pre-planning for digital video production. (5 marks)
- b) Digital motion visual effects (VFX) are important element for movie production. With the use of suitable scenes from movies that you have seen, state and explain **FOUR (4)** examples of digital motion visual effects (VFX) adopted by movie production. (10 marks)
- c) Identify and describe **FIVE (5)** usability design principles for good human computer interaction. (10 marks)

Question 4

- a) What are the **TWO (2)** advantages of using multimedia application for learning?
Explain your answer. (5 marks)
- b) i) List **FIVE (5)** considerations when choosing a multimedia authoring tool. (5 marks)
- ii) Identify and explain **THREE (3)** distinct features you would look for in a multimedia authoring tool to create a multimedia application. (9 marks)
- iii) Suggest and explain **TWO (2)** categories of multimedia authoring tool. (6 marks)

Question 5

- a) Sophia would like to record her song digitally using the CD-stereo quality audio format. The length of the song is 7 minutes and 11 seconds. Calculate the exact storage needed to store the audio file (in Megabyte) – *do not round up the final answer.* (6 marks)
- b) Identify and explain **THREE (3)** types of optical discs used to distribute multimedia application. (9 marks)
- c) List and briefly explain **FIVE (5)** guidelines when using text in the development of multimedia application. (10 marks)

Question 6

The University Placement Office (UPO) of your college assists students who plan to continue their studies in oversea universities. To encourage and enhance their services to the students, UPO has decided to make a multimedia application. Your multimedia firm has been selected to lead the design and development of this multimedia application.

- a) State **FOUR (4)** reasons on why the Internet is a more suitable choice of multimedia delivery platform for this multimedia application. (4 marks)
- b) List and explain **THREE (3)** features for this multimedia application. (9 marks)
- c) Identify and briefly explain **SIX (6)** situations where interactivity is highly desired in the user interface design of this multimedia application. (12 marks)

– THE END –
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