



FINAL
Examination Paper

(COVER PAGE)

Session : April 2013

Programme : Diploma In Information And Communication Technology (DICTN)

Course : ICT2105: Interactive Multimedia

Date of Examination : August 2, 2013

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

Duration : 2 Hours

Special Instructions :

Answer any FOUR (4) questions.

Materials permitted : Nil

Materials provided : Nil

Examiner (s) : Mr. Andrew Ho Mun Wah, R.K Krishnamoorthy

Moderator : Associate Professor Dr. Abdullah Gani

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

INTI INTERNATIONAL COLLEGE SUBANG

DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY PROGRAMME
ICT2105: INTERACTIVE MULTIMEDIA
FINAL EXAMINATION: APRIL 2013 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) Name **SIX (6)** key multimedia project team members. (6 marks)
- (a) (i) Name **THREE (3)** types of the text media element. (3 marks)
- (ii) Identify and briefly explain **TWO (2)** advantages and **TWO (2)** disadvantages of using text media element as compared to other media elements. (8 marks)
- (b) For *each* of the following multimedia software, name **TWO (2)** examples:- (8 marks)
- (i) Audio editing software
 - (ii) Image editing software
 - (iii) Video editing software
 - (iv) Media player software

Question 2

- (a) State any **FIVE (5)** situations a user interface design would need interactivity. (5 marks)
- (b) Identify and briefly explain **FOUR (4)** types of testing techniques that are conducted for multimedia application. (8 marks)
- (c) Developing user-friendly multimedia application is an important concern. List and describe any **SIX (6)** usability design guidelines for user interface design. (12 marks)

Question 3

- (a) List any **SEVEN (7)** important considerations when pre-planning for a digital video production. (7 marks)

- (b) Animation effects are important element for blockbuster movie production such as “Cloud Atlas”, “2012”, and “Oz: The Great and Powerful”. With the use of suitable scenes from movies that you have seen, state and describe **FOUR (4)** examples of animated visual effects adopted by movie production. (8 marks)
- (c) Identify and explain **FOUR (4)** examples of computer animation techniques. (10 marks)

Question 4

- (a) Name **THREE (3)** examples of color models used in multimedia production. (3 marks)
- (b) (i) List any **FIVE (5)** categories of multimedia derivative work. (5 marks)
- (ii) For *each* category of multimedia derivative work identified in Q4(c)(i), name **ONE (1)** example that you know. (5 marks)
- (c) State and describe **SIX (6)** exclusive rights granted under the copyright law on originally created multimedia work. (12 marks)

Question 5

- (a) Gatsby would like to record his song digitally using the CD-stereo quality audio format. The length of the song is 9 minutes 13 seconds. Calculate the exact storage needed to store the audio file (in Megabyte) – *do not round up the final answer*. (6 marks)
- (b) (i) Name **FOUR (4)** types of multimedia applications that are popular in the Internet. (4 marks)
- (ii) Identify and briefly explain **THREE (3)** benefits of distributing multimedia applications into the Internet. (6 marks)
- (c) (i) List and describe any **THREE (3)** types of multimedia authoring software tools. (6 marks)
- (ii) For *each* type of multimedia authoring software tools listed in Q5(c)(i), name **ONE (1)** example. (3 marks)

Question 6

The Tourism Board wishes to promote the stories, art and culture, people, products and places of your country to the world, is proposing to create a multimedia mobile application. Specific stories on folklore, myth, legends; traditional games; famous individuals, foods, cities and any other elements that are related to the rich heritage of your country is expected to be introduced. Your multimedia firm has been selected to lead the design and development of this multimedia mobile application project.

- (a) Based on the above information, list **FIVE (5)** common features that can be included.
(5 marks)
- (b) List and briefly explain **THREE (3)** technical issues of developing this multimedia mobile application.
(6 marks)
- (c) Illustrate a suitable design pattern that can be used to represent the *content and information structure* of the Multimedia mobile application.
(6 marks)
- (d) Draw and describe any **FOUR (4)** screen design of this Multimedia mobile application.
(8 marks)

– THE END –

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