



FINAL  
Examination Paper

(COVER PAGE)

Session : August 2016

Programme : Diploma In Information And Communication Technology (DICTN)

Course : ICT2105: Interactive Multimedia

Date of Examination : 06 December, 2016 (Tuesday)

Time : 5:00pm – 7:00pm Reading Time : Nil

Duration : 2 Hours

**Special Instructions :**

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

Materials permitted : Non-Programmable Calculator

Materials provided : Nil

Examiner(s) : Andrew Ho Mun Wah and Shyamala Nadarajan

Moderator : Dr Renee Chew

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

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY PROGRAMME  
(DICTN)  
ICT2105: INTERACTIVE MULTIMEDIA  
FINAL EXAMINATION: AUGUST 2016 SESSION

**Instruction:** 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) For *each* of the following media element, name **ONE (1)** multimedia software tool:-

- i. Animation
- ii. Audio
- iii. Font
- iv. Video
- v. Vector graphics

(5 marks)

(b) Identify and briefly explain **FOUR (4)** design models for multimedia application.

(8 marks)

(c) Suggest and describe **SIX (6)** design usability heuristics to create a user-friendly user interface design for a multimedia application.

(12 marks)

**(Total: 25 marks)**

**Question 2**

(a) Name **FIVE (5)** digital picture file formats.

(5 marks)

(b) List and describe **FIVE (5)** guidelines when using text in a multimedia presentation.

(10 marks)

(c) Define morphing. With the use of appropriate examples, explain **TWO (2)** morphing effect for *each* of the following multimedia work:-

- i. Animated television production
- ii. Motion picture film production

(10 marks)

**(Total: 25 marks)**

**Question 3**

- (a) Name **FIVE (5)** types of multimedia applications that are popular in the Internet.  
(5 marks)
- (b) Identify and explain **TWO (2)** reasons supporting and **TWO (2)** reasons against the distribution of multimedia applications into the Internet.  
(10 marks)
- (c) List and briefly explain **FIVE (5)** roles for a multimedia project manager.  
(10 marks)

**(Total: 25 marks)**

**Question 4**

- (a) Name **FIVE (5)** popular multimedia media players.  
(5 marks)
- (b) List and describe **FIVE (5)** problems that contribute to a multimedia project failure.  
(10 marks)
- (c) Identify and briefly explain **FIVE (5)** multimedia author's exclusive rights associated to copyright protection for this multimedia application.  
(10 marks)

**(Total: 25 marks)**

**Question 5**

- (a) Steve would like to record his song digitally using the CD-stereo quality audio format. The length of the song is 9 minutes 18 seconds. Calculate the exact storage needed to store the audio file (in Megabyte). Do not round-up the final answer. (6 marks)
- (b)

**merdeka**  
*merdeka*  
 merdeka

Determine and describe the font family for each of the sample text above. For *each* of the font family determined for the respective sample text, briefly explain the most suitable situation they should be best used in a multimedia application

(9 marks)

- (c) Identify and briefly explain the **FIVE (5)** situations you would need to create interactivity for a multimedia application.

(10 marks)

**(Total: 25 marks)****Question 6**

The Ministry of Health in your country has decided to make an interactive multimedia mobile application to share information on how to prevent the spread of the Zika virus that is spread by the Aedes mosquito. Your multimedia firm has been selected to lead the design and development of this mobile multimedia application.

- (a) Suggest a design metaphor that can be used as the user interface design theme for this mobile multimedia application. Explain the **TWO (2)** reasons for your choice of design metaphor. (5 marks)
- (b) Recommend and briefly explain **FIVE (5)** most important features which you will propose to for this mobile multimedia application. (10 marks)
- (c) Name and describe **FIVE (5)** types of testing that need to be conducted for this mobile multimedia application. (10 marks)

**(Total: 25 marks)**

~ The End ~