



STAMFORD COLLEGE
SCHOOL OF COMPUTER SCIENCES
DIPLOMA IN INFORMATION TECHNOLOGY

STC205 : MULTIMEDIA SYSTEMS

Date : 11 May 2007 (Friday)

Time : 2.15 p.m. – 4.15 p.m.

Duration: 2 hours

Instructions to Candidates

Answer ALL questions.

Please ensure that this examination paper contains FIVE questions on TWO printed pages before you start the examination.

Books, papers and other written materials are not allowed to be brought into the examination hall. A candidate who violates the examination rules of Stamford College or commits a malpractice will be disqualified from the examination.

Candidates may use calculators provided the calculators give no printout, have no work display facilities, are silent and cordless.

Write your Examination Index Number on each page of your answer booklet.

Answer ALL questions

Question 1

- (a) Define multimedia. (2 marks)
- (b) Give 3 advantages of using a multimedia system. (3 marks)
- (c) What are the components of a multimedia system? Give examples of each. (10 marks)
- (d) How is a standalone multimedia system different from a dedicated link? Draw diagrams to illustrate your answer. (5 marks)
- (Total = 20 marks)

Question 2

- (a) List down five members involved in the multimedia development team. (5 marks)
- (b) Discuss all five of them in detail. (15 marks)
- (Total = 20 marks)

Question 3

- (a) Explain the following multimedia elements in detail:
- (i) Graphic
 - (ii) Animation
 - (iii) Text
 - (iv) Image
 - (v) Audio
- (10 marks)
- (b) What do you understand by the term ‘interactive multimedia’? (2 marks)
- (c) Give four examples of interactive multimedia. (4 marks)
- (d) Differentiate between hypertext and hypermedia. (4 marks)
- (Total = 20 marks)

Question 4

- (a) How is a multimedia database system different from a multimedia conferencing system? (4 marks)
- (b) There are eight distinct phases of the multimedia project methodology. List all the eight phases and briefly explain each phase. You may give examples where appropriate. (16 marks)
- (Total = 20 marks)

Question 5

The OSI (Open Systems Interconnection) reference model is one of the network architectures developed by the International Standards Organisation (ISO). This is a first step toward international standardisation of the protocols used in the various layers (Day and Zimmermann, 1983).

List all the layers of the OSI model and briefly explain each layer in detail. You may draw diagrams to illustrate your answer.

(20 marks)
(Total = 20 marks)

- END -