

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I SESSION 2011/2012

COURSE NAME

INTRODUCTION TO INFORMATION

TECHNOLOGY

COURSE CODE

BIT 10203

PROGRAMME

BACHELOR OF INFORMATION

TECHNOLOGY

EXAMINATION DATE

JANUARY 2012

DURATION

2 1/2 HOURS

INSTRUCTION

ANSWER ALL QUESTIONS IN

SECTION A, B, C AND CHOOSE ONE (1) QUESTION IN SECTION D

THIS QUESTION PAPER CONSISTS OF SEVEN (7) PAGES

SECTION A

Instruction: State whether each of the following statement is TRUE or FALSE.

- Q1 In order to receive e-mail, the user being sent the e-mail must have their e-mail program running.
- Q2 A network is a collection of computers and devices connected together via communications devices and transmission media.
- O3 A hierarchical database can be described as a many-to-many relationship.
- Q4 Physical transmission media send communications signal through the air or space using radio and infrared signals.
- Q5 Unauthorized copying of software, called software piracy, incurs huge financial loss to software developers.
- Q6 Data warehouse contains a huge database system that stores and manages data required to analyze historical and current transaction.
- Q7 A strategic planning is decided at the highest management level.
- Q8 Communication channel is the media on which data, instruction or information travel.
- Q9 A periodic report is produced based on the request.
- Q10 Validity check analyzes entered data to reduce data entry errors.

(10 marks)

SECTION B

Instru	Instruction: Choose the BEST answer.				
Q11	Presentations can be made live over the Internet to groups of people using which of the followings?				
	A. E-mail				
	B. Collaborative conferencing				
	C. Videoconferencing D. Webcasting				
	D. Westing				
Q12	Al-Farique is a student at Universiti Tun Hussein Onn Malaysia (UTHM). He wants to contact his parent in Dubai via electronic mail. Which type of network is involved in the above communication?				
	A. Local Area Network (LAN)				
	B. Metropolitan Area Network (MAN)				
	C. Wide Area Network (WAN)				
	D. College Area Network (CAN)				
Q13	Multiple dimensional database is also known as				
	A. object-oriented				
	B. relational				
	C. hierarchical				
	D. hypercube				
Q14	Management Information System produces standardized reports in				

B. routine structure form

- C. fixed structure form
- D. flexible structure form

Q15	Which of the followings describes someone who gains illegal access to a computer system?
	A. Hacker B. Identity thief C. Intruder D. Cyber-terrorist
Q16.	The design phase includes the following activities EXCEPT : A. database design B. user design C. input and output design D. program design
Q17	Which of the followings allows existing bank customers to interact with their account without actually going to the bank? A. Cyberbanking B. Virtual banking C. Online banking D. E-commerce banking.
Q18	Which of the followings is a network architecture category? A. Ethernet B. IrDA C. T-Carrier Line D. Peer-to-peer network
Q19	Decision Support System contains the following parts EXCEPT : A. user

B. system analyst
C. system software

D. decision models

Relational database has the following characteristics EXCEPT:

Q20

	B. hav	xible database ve access paths down a hierarchy s hierarchical arrangement of nodes ta elements are stored in different table	
			10 marks)
CECT	ION C		
		Answer ALL questions.	
Q21	(a)	Discuss the FOUR (4) elements of a URL below and the purpose	of each.
		http://www.uthm.edu.my	(8 marks)
	(b)	Give a reason a company uses Virtual Private Network (VPN) ov Internet.	er the (2 marks)
Q22	(a)	Discuss THREE (3) ways in which a typical computer virus can non-infected computer.	get on a (6 marks)
	(b)	Give TWO (2) approaches to minimize piracy?	(4 marks)
Q23	(a)	Explain ONE (1) difference between Intranet and Extranet.	(2 marks)
	(b)	Use FOUR (4) reasons why businesses should implementing connetwork?	mputer (8 marks)

Q24 (a) Illustrate and name any TWO (2) types of network topologies for setup a network in cyber cafe.

(6 marks)

(b) Explain **TWO** (2) disadvantages of the above topology.

(4 marks)

Q25 The manager of a MyBooks bookstore uses a database to store data about books he sells. **Table 1** shows *booklist* table that is a part of the MyBooks database.

Table 1: Booklist

Book_id	Title	Publisher	Author	Category	Price (Ringgit Malaysia)
AS0067	Accounting and Finance for Non-Accountants	Leeds Publication	Lazar, Jane	Accounting & Statistics	39.00
AS0023	Professional Advancement Achievement Centre Sdn Bhd	Professional Advancement Achievement Centre Sdn Bhd	Tan Liong Tong	Accounting & Statistics	75.00
MC0012	What Your Teacher Didn't Tell You: The Annexe Lectures	Matahari Books	Farish A. Noor	Malaysian Collection	40.00
AS0234	Cost Management: Strategies For Business Decision	Mcgraw Hill	Hilton	Accounting & Statistics	103.80
BM0365	The 5 Levels of Leadership: Proven Steps to Maximise Your Potential	Hodder & Stoughton Ltd	Maxwell, John C.	Business and Management	59.90

(a) How many records are there in the database?

(1 mark)

(b) How many fields are there in the database?

(1 mark)

(c) Create a data dictionary for the respective database.

(5 marks)

(c) Produce the output from the following SQL statement.

SELECT * FROM booklist
WHERE price > RM50
ORDER BY Title

(3 marks)

Q26 (a) What is information system?

(2 marks)

(b) Illustrate **FOUR** (4) types of Computer Based Information Systems (CBIS) in different management level for an organization.

(8 marks)

SECTION D

Instruction: Answer **ONE** (1) question only.

Q27 Discuss information systems security for both technology and human-based safeguards to secure the digital environment.

(20 marks)

The cost and demand of hardware, networking services, computing resources and skilled specialist to maintain complex information systems dramatically increase. These opposing trends have led to an increase in the use of virtualization, cloud computing and grid computing. Discuss how virtualization, cloud computing and grid computing can assist to enterprise to reduce the cost.

(20 marks)

Q29 To kick start Malaysia's journey towards transforming the nation into knowledge based economy, MSC Malaysia has achieved excellence in innovation through four flagship applications. The four flagships are MyKad, Smartschool, Electronic Government (EG) and Tele-health. Discuss all the flagships how MSC Malaysia has achieved excellence in innovation.

(20 marks)