UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
SEMESTER I
SESSION 2014/2015

COURSE NAME	:	INTRODUCTION TO INFORMATION TECHNOLOGY
COURSE CODE	:	DAT 10503
PROGRAMME	:	1 DAT
EXAMINATION DATE	:	DECEMBER 2014/JANUARY 2015
DURATION	:	2 ½ HOURS
INSTRUCTIONS	:	A) ANSWER **ALL** QUESTIONS
		B) ANSWER **ALL** QUESTIONS
		C) ANSWER **FOUR (4)** QUESTIONS ONLY

THIS QUESTION PAPER CONSISTS OF **ELEVEN (11)** PAGES

BAHASA INGGERIS
PART A OBJECTIVE QUESTIONS (20 marks)

Q1   "Instead of working directly with Database Management System (DBMS), some users interact with a 'front end'."

'Front End' in the statement above refers to a _____.

    A.   Program that is being displayed on the front of a system
    B.   Program that connects the Operating System (OS) with a DBMS
    C.   Program that is in a file processing system and connected to a DBMS
    D.   Program that generally has a more user-friendly interface than a DBMS

Q2   In Microsoft Excel, the cell labeled J25 refers to _____ .

    A.   row J column 25
    B.   column J row 25
    C.   functions available in cells
    D.   function key F5

Q3   Which of the statement below defines Microsoft Excel and Microsoft Access?

    A.   Microsoft Excel is a type of spreadsheet while Microsoft Access is a type of Database Management System (DBMS)
    B.   Microsoft Excel is a Decision Support System (DSS) while Microsoft Access is a Management Information System (MIS)
    C.   Microsoft Excel stores data in a table while Microsoft Access stores data in worksheet
    D.   Microsoft Excel need user to build columns/fields in the Design View while Microsoft Access need user to build columns/fields in Datasheet View

Q4   Malware is a term that can be used to describe _____.

    A.   worms
    B.   spyware
    C.   back doors
    D.   all of the above

Q5   The formula = A2 + B1 is located in cell B3

	A	B	C	D
1	2	5	6	3
2	3	3	3	4
3	5	= A2 + B1	6	1
4	8	5	9	???

If this was copied and pasted into cell D4, what would be the result?

A.   8
B.   7
C.   6
D.   10

Q6   The formula =$C$3*D3 is located in cell B1. If this was copied and pasted into cell C1, what would the resulting formula be?

	A	B	C	D	E
1		=$C$3*D2	???		
2	3	3	4	6	3
3	5	4	3	8	2
4	4	3	4	9	1

A.   = $C$3*B2
B.   = $C$3*E3
C.   = $C$4*B3
D.   = $C$3*E2

Q7   An _____ address is a number that uniquely identifies each computer or device connected to the Internet.

A.   Internet Protocol
B.   Internet Domain
C.   Internet Service
D.   Internet Integrated

Q8 _____combines text-based links with graphics, audio, and video links.

A. Hypertext
B. Universal Resource Locator
C. Hypermedia
D. Text Links

Q9 A _____ hides within or looks like a legitimate program. It does not replicate itself to other computers.

A. Worm
B. Spyware
C. Back doors
D. Trojan horse

Q10 The main difference among the three network classifications is the _____.

A. Area of coverage
B. Data transmission
C. Types of technology involved
D. Hardware and software involved

Q11 _____ is an applied science devoted to incorporate comfort, efficiency and safety into the design of items in the workplace.

A. Ergonomics
B. Green Computing
C. Repetitive Strain Injury
D. Computer Vision Syndrome

Q12 _____ refers to the layout of the computers and devices in a communications network.

A. Network Area
B. Network Communication Standard
C. Network Architecture
D. Network Topology

Q13 Infrared requires line-of-sight transmissions, which means that _____.

    A. the receiving device has to support Plug and Play
    B. the sending device transmits data via radio waves
    C. the sending device and the receiving device must be in line with each other so that nothing obstructs the path of the infrared light wave
    D. it can transmit signals through doors and other obstacles

Q14 Which is a type of health-related condition due to computer usage?

    A. Repetitive Depression Disorder (RDD)
    B. Repetitive Sight Injury (RSI)
    C. Computer Addiction Disorder (CAD)
    D. Computer Vision Syndrome (CVS)

Q15 _____ occurs when one consumer sells directly to another consumer, such as in an online auction.

    A. B2B e-commerce
    B. C2C e-commerce
    C. B2C e-commerce
    D. E-commerce

Q16 A _____ is simply a question you ask a database in which after you executing it, the DBMS will produce the results or answer to the question.

    A. query
    B. reference
    C. referential
    D. relationship

Q17   "The system will take the information extracted from Transaction Processing System (TPS) and generates reports required by the management."

The above statement refers to _____.

    A.   Expert System
    B.   Decision Support System
    C.   Office Information System
    D.   Management Information System

Q18   In Microsoft Access, a _____ is the best way to present information needed by the top management or user/client.

    A.   table
    B.   form
    C.   query
    D.   report

Q19   Information Superhighway is _____.

    A.   a combination of several web servers and users around the world
    B.   a combination of intermediate materials and devices used to transmit information from one computer to another
    C.   a set of instructions that enable the network to interact with computers connected
    D.   a set of instructions that act as an interpreter in order to communicate with other computers

Q20   _____ is one of the examples of a program or guidelines that serve the purpose of Green Computing, which involves reducing electricity and environmental waste while using computer.

    A.   Energy Star
    B.   Save Energy
    C.   Energy Reduced
    D.   Star Power

(20 marks)

PART B TRUE/FALSE QUESTIONS (20 marks)

Q21   A recovery utility in a DBMS uses logs or backups to restore a database when it becomes damaged or destroyed.

Q22   Verification is a guide consisting of orderly steps, which need to be followed and implemented in order to get a certain decision on a certain matter.

Q23   The system analyst sometimes also holds the post of the project manager.

Q24   Expert System is a program that produces a decision which is almost similar to decisions made by an expert in certain discipline.

Q25   Internal users consist of managers, technicians and sales representative.

Q26   Wikis is a collaborative web sites that allow users to create, add to, modify, or delete Web site content.

Q27   A Wi-Fi network uses radio signals to provide Internet connections to wireless computers and devices.

Q28   A Web server is an application software that allows users to access and view Web pages.

Q29   An intranet is an internal network that uses Internet technologies and make company information accessible to employees and facilitate working in groups.

Q30   A field is a combination of one or more related characters or bytes and is the smallest unit of data a user accesses.

Q31   A Web page has a unique address, called a URL or Web address.

Q32   First-level managers set goals for the organization and direct the company to achieve them.

Q33   Script kiddie has the same intent as cracker but does not have the technical skills and knowledge.

Q34   Network architecture is categorized as either client/server or main server.

Q35   A Wireless Internet Access Point is a navigation system that consists of one or more earth-based receivers that accept and analyze signals sent by satellites in order to determine the receiver's geographic location.

Q36   A network is a collection of computers and devices connected together via communications devices and transmission media.

Q37   Online Advertising, recruiting and technical support are examples of B2C e-commerce.

Q38   Service Commerce refers to a company that contract with another company to provide services that might otherwise be performed by in-house employees.

Q39   The most prominent advantage of Outsourcing is that it often saves money.

Q40   COINS is one of the main highway information in Malaysia that is owned by MIMOS Bhd.

(20 marks)

PART C STRUCTURE QUESTIONS (60 marks)

Q41 (a) Define the term Information System (IS).

(1 mark)

(b) Give **FOUR (4)** skills needed by a system analyst.

(2 marks)

(c) Explain **THREE (3)** types of Information System.

(6 marks)

(d) Produce the validation rule to enforce validation check in field properties (in Mic. Access) for field name 'Favorite Number', if the users are only allow to enter number ranging from 1 to 9.

(5 marks)

(e) Give **TWO (2)** major weaknesses of using file processing systems.

(1 mark)

Q42 (a) Describe **FOUR (4)** advantages of using a network.

(4 marks)

(b) State the difference between broadband internet access and dial-up access.

(2 marks)

(c) State the difference between intranet, extranet and internet.

(3 marks)

(d) Classify **THREE (3)** characteristics of an Internet Protocol (IP) address.

(6 marks)

Q43 (a) List **THREE (3)** network classifications.

(3 marks)

(b) Explain on the peer-to peer network.

(3 marks)

(c) Sketch **THREE (3)** network topologies that are commonly used.

(6 marks)

(d)   Define the term Computer Security Risk.

(2 marks)

(e)   List **ONE (1)** of the category of Cybercrime.

(1 mark)

Q44   (a)   List **FOUR (4)** symptoms of a user with computer addiction.

(2 marks)

(b)   Explain on the term Outsourcing.

(2 marks)

(c)   List **FOUR (4)** main devices used to build the information superhighway.

(2 marks)

(d)   Prepare **THREE (3)** ways to prevent or avoid from getting your computer infected with Trojan Horse.

(6 marks)

(e)   Give an example of a situation that is associated with Information Privacy.

(3 marks)

Q45   (a)   Describe the term Malware.

(2 marks)

(b)   State the main difference between Worm and Trojan Horse.

(2 marks)

(c)   Explain on Corporate Espionage in Cybercrime.

(4 marks)

(d)   Illustrate the difference between the **THREE (3)** network classifications with a drawing.

(6 marks)

(e)   List **TWO (2)** network communications standards and protocols for wireless networks.

(1 mark)

Q46 (a) Define the term RFID.

(1 mark)

(b) Define the term latency in communications channel.

(2 marks)

(c) Explain on the term Transmission Media.

(3 marks)

(d) Give **THREE (3)** physical transmission media used in communications.

(3 marks)

(e) Classify **THREE (3)** criteria of a good cable for transmission media.

(6 marks)

- END OF QUESTION -