UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
SEMESTER I
SESSION 2015/2016

COURSE NAME	:	COMPUTER TECHNOLOGY AND MULTIMEDIA
COURSE CODE	:	DAU16103
PROGRAMME	:	1 DAU
EXAMINATION DATE	:	DECEMBER 2015/ JANUARY 2016
DURATION	:	3 HOURS
INSTRUCTION	:	SECTON A) ANSWER **ALL** QUESTION
		SECTON B) ANSWER **ALL** QUESTION

THIS QUESTION PAPER CONSISTS OF **NINE (9)** PAGES

SECTION A

Q1   The second generation computer was created in 1956 to overcome any negative aspect from previous predecessor **EXCEPT** _____.

    A. the use of Operating System
    B. support high level language
    C. the development of core memory
    D. the usage of magnetic tape and disk

Q2   Which of the following statements is **TRUE**?

    A. Minicomputer works faster than Microcomputer
    B. Microcomputer works faster than Minicomputer
    C. Speed of both the computers is the same
    D. The speeds of both these computers cannot be compared with the speed of advanced computer

Q3   Which of the following statements is **TRUE**?

    A. Plotters are not available for microcomputer systems
    B. Micro-computer are not programmed like conventional computers
    C. Mini-computers are task-oriented
    D. The contents of ROM are easily changed

Q4   Computers can be classified in which of the following hierarchical orders?

    A. PC, Large, Super Micro, Super Computer
    B. Super Micro, PC, Large, Super Computer
    C. PC, Super Micro, Large, Super Computer
    D. Large, Super Micro, Super Computer, PC

Q5   First generation computer systems used _____.

   A. transistors
   B. vacuum tubes
   C. magnetic cores
   D. silicon chips

Q6   Select the odd one out.

   A. Interpreter
   B. Operating System
   C. Compiler
   D. Assembler

Q7   A characteristic of the ASCII code is _____ .

   A. its limitation to a maximum of 96 character configuration
   B. its use of the zone codes 1010, 1011 and 1100
   C. its independence from Hollerith code
   D. All of the above

Q8   What is part of a database that holds only one type of information?

   A. Report
   B. Field
   C. Record
   D. File

Q9   Select the odd one out.

   A. Student name
   B. University database
   C. Address
   D. Phone number

Q10 Alphabetic and numeric validation check is to _____.

    A. verify that a required field contains data
    B. determine whether number is within specified array
    C. ensure that users enter only alphabetic or numeric data
    D. confirm accuracy of primary key value

Q11 Information System provides information that organizations require. It is a collection of _____.

    A. individual and group
    B. process, development and documentation
    C. information for decision making
    D. All of the above

Q12 Creates finished goods and services using raw materials and personnel is a job description under department of _____.

    A. production and Operation
    B. marketing and Sales
    C. research and Development
    D. human Resource

Q13 Below are phases in System Development Life Cycle (SDLC) **EXCEPT** _____.

    A. design Phase
    B. maintenance Phase
    C. documentation Phase
    D. implementation Phase

Q14   The _____ is the physical path over which a message travels.

    A. protocol
    B. medium
    C. signal
    D. internet

Q15   Frequency of failure and network recovery time after a failure are measures of the _____ of a network.

    A. performance
    B. reliability
    C. security
    D. feasibility

Q16   Which topology requires a multipoint connection?

    A. Mesh
    B. Star
    C. Bus
    D. Ring

Q17   A television broadcast is an example of _____ transmission.

    A. simplex
    B. half-duplex
    C. full-duplex
    D. automatic

Q18   The intention is to make computer system and network busy and overload. What kind of threat is this?

    A. Trojan Horses
    B. DOS
    C. Viruses
    D. Malware

Q19 All of the answers below are advantages to buying your own software **EXCEPT** _____ .

    A. having instruction manuals or documentation.
    B. getting expert help from the software company.
    C. giving free copies to your friends.
    D. having the personal satisfaction of doing what is ethical and legal.

Q20 Hackers are unethical people who _____ .

    A. access databases that they have no right to be in.
    B. create programs intending to destroy other computer systems
    C. do not respect the rights or privacy of others.
    D. all of the above

(20 marks)

SECTION B

Q21 (a) Describe **five (5)** basic departments in an organization.

(10 marks)

(b) Define Management Information System.

(2 marks)

(c) Explain **four (4)** types of report that been produce by Management Information System.

(4 marks)

(d) Describe Preliminary Investigation Phase in System Development Life Cycle (SDLC).

(4 marks)

Q22 (a) Define Computer Networks.

(3 marks)

(b) Describe Personal Area Network (PAN).

(3 marks)

(c) Compare Client Server with peer-to-peer (P2P).

(4 marks)

(d) Describe Network Topology.

(2 marks)

(e) Explain Bus Network.

(2 marks)

(f) List **three (3)** advantages and **three (3)** disadvantages of Ring Topology.

(6 marks)

Q23 (a) Define the following terms:

(i) Website

(ii) Web Page

(1 mark)

(iii) Web Server

(1 mark)

(1 mark)

(iv) HTML

(1 mark)

(b) Explain the term of multimedia in website browser?

(2 marks)

(c) Define Cookies?

(2 marks)

(d) Carry out **four (4)** reasons why websites use Cookies.

(8 marks)

(e) Give definition of Computer Security Risk ?

(2 marks)

(f) Give **two (2)** example of Computer Security Risk.

(2 marks)

Q24 (a) Describe Trojan Horse.

(3 marks)

(b) Carry out **four (4)** situations how malware can spread throughout a computer system.

(4 marks)

(c) Identity theft is a crime which a person hijack your name and identity for personel gain. Demonstrate how does the thief manage to gain those information?

(3 marks)

(d) Differentiate between spyware, adware, and spam.

(3 marks)

(e) Give simple explaination on all four item below:

(i) Digital Signature

(ii) Digital Certificate

(1 mark)

(iii) Secure Socket layer

(1 mark)

(iv) Secure HTTP

(1 mark)

(1 mark)

(f)   Explain the negative impact of information technology and give **two (2)** example.

(3 marks)

- END OF QUESTION -