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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2013/2014**

COURSE NAME : INTRODUCTION TO
INFORMATION TECHNOLOGY

COURSE CODE : DAT 10503

PROGRAMME : 1 DAT

EXAMINATION DATE : DECEMBER 2013/JANUARY 2014

DURATION : 2 HOURS

INSTRUCTIONS : A) ANSWER ALL QUESTIONS
B) ANSWER ALL QUESTIONS
C) ANSWER TWO (2) QUESTIONS
ONLY

THIS QUESTION PAPER CONSISTS OF NINE (9) PAGES

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PART A OBJECTIVE QUESTIONS (15 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 a complex DBMS lists all the activities that change the contents of the database.

- A. Log
- B. Copy
- C. Restoration
- D. Backup Utility

Q3 “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

Q4 A _____ 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.

- A. Groupware
- B. File Transfer Protocol
- C. Global Positioning Systems
- D. Wireless Internet Access Point

- Q5** 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
- Q6** A URL stands for _____.
- A. Uniform Resource Locator
 - B. Universal Resource Locator
 - C. Universal Resource Local
 - D. Undefined Resource Location
- Q7** A _____ is a program that copies itself repeatedly and eventually will cause high usage of resources of memory.
- A. Worm
 - B. Spyware
 - C. Back doors
 - D. Trojan horse
- Q8** The main differentiation among the three network classifications is the _____.
- A. Area of coverage
 - B. Data transmission
 - C. Types of technology involved
 - D. Hardware and software involved
- Q9** _____ 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

Q10 _____ procedures include adding records into a file, changing records in a file and deleting records from a file.

- A. Backup
- B. Validation
- C. Range check
- D. File maintenance

Q11 Malware is a term used to describe _____.

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

Q12 _____ refers to a company that contract with another company to provide services that might otherwise be performed by in-house employees.

- A. Outsourcing
- B. E-commerce
- C. Green computing
- D. Computer addiction

Q13 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

Q14 Which is **NOT TRUE** about Microsoft Excel and Microsoft Access?

- A. Excel is a spreadsheet while Access is a database management system
- B. Excel stores data in a workbook while Access stores data in worksheets
- C. Excel manages basic information while Access is used to manage

- more complicated and bigger volume of data
- D. Excel cannot make a relation among sheets while Access is able to relate from one field in a table to another table

Q15

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

PART B TRUE/FALSE QUESTIONS (15 marks)

- Q16** Validation is the process of comparing data with a set of rules or values to find out if the data is correct.
- Q17** 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.
- Q18** The job of a programmer is to cooperate with other individuals in the organization to evaluate system requirements.
- Q19** Expert System is a program that produces a decision which is almost similar to decisions made by an expert in certain discipline.
- Q20** Internal users, consisting of the customers who use the company's system for performing transactions, suppliers who use the system for planning sales, and the staff who use the system outside office hours.
- Q21** Wikis is a collaborative web sites that allow users to create, add to, modify, or delete Web site content.
- Q22** A Wi-Fi network uses radio signals to provide Internet connections to wireless computers and devices.
- Q23** RSS or Real Simple Syndication is a specification that enables programmers to create applications that communicate with other remote computers.
- Q24** An extranet is the portion of a company's network that allows customers or suppliers of a company to access parts of an enterprise's intranet.
- Q25** A bus network can span a larger distances than a ring network.
- Q26** MAN (Metropolitan Area Network) is a network that connects computers and devices in a limited geographical area such as home, school computer laboratory, office building, or closely positioned group of buildings.

- Q27** Cyberterrorist is someone who uses e-mail as a vehicle for extortion. These perpetrators send a company a threatening e-mail message indicating they will expose confidential information, exploit a security flaw, or launch an attack that will compromise the company's network – if they are not paid a sum of money
- Q28** Script kiddie has the same intent as cracker but does not have the technical skills and knowledge.
- Q29** Network architecture is categorized as either client/server or main server.
- Q30** Intellectual property (IP) refers to unique and original work such as ideas, inventions, art, writing, processes, company and product names and logos.

PART C STRUCTURE QUESTIONS (20 marks)

- Q31** (a) Define the term Database Management System (DBMS).
(1 mark)
- (b) Give **FOUR (4)** skills needed by a system analyst.
(2 marks)
- (c) Explain **TWO (2)** types of database.
(4 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.
(2 marks)
- (e) Give **TWO (2)** examples of titles (post) for top-level managers.
(1 marks)
- Q32** (a) Describe **THREE (3)** uses of computer communications.
(3 marks)
- (b) State the difference between broadband internet access and dial-up access.
(2 marks)
- (c) List **TWO (2)** ways for preventing virus, worm and Trojan horse infections.
(2 marks)
- (d) Classify **THREE (3)** characteristics of an Internet Protocol (IP) address.
(3 marks)

- Q33** (a) List **FOUR (4)** advantages of using a network. (2 marks)
- (b) Explain **THREE (3)** network classifications. (3 marks)
- (c) Sketch the **THREE (3)** network topologies that are commonly used. (3 marks)
- (d) Define the term peer-to peer network. (1 mark)
- (e) Give the greatest risk to a bus network. (1 mark)

- END OF QUESTION -