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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2015/2016**

COURSE NAME : INTRODUCTION TO
INFORMATION TECHNOLOGY
COURSE CODE : DAT 10503
PROGRAMME : 1 DAT
EXAMINATION DATE : DECEMBER 2015/
JANUARY 2016
DURATION : 2 HOURS 30 MINUTES
INSTRUCTION : A) ANSWER ALL QUESTIONS.
B) ANSWER TWO (2)
QUESTIONS ONLY.

THIS QUESTION PAPER CONSISTS OF SEVEN (7) PAGES

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PART A

Instruction : Answer ALL Questions.

Q1 Identify the correct word/words based on the following lists to fill in the blanks.

Ring network	ALU	Star network	Internet
Floppy disk	Computer virus	Internal network	CD-R
File manager	Internet Protocol	worm	Malicious software
Heat sink	Bus network	B2C	Trojan horse
CD-RW	System clock	Input device	C2C

- (a) _____ address is a number that uniquely identifies each computer or device connected to the internet.
- (b) The _____ is the world's largest Wide Area Network (WAN)
- (c) A _____ is also called a diskette.
- (d) A _____ is a utility that performs functions related to file management.
- (e) An intranet is an _____ that uses internet technologies.
- (f) _____ control the timing of all computer operations.
- (g) _____ is an erasable multisession disc you can write on multiple times.
- (h) A _____ consists of a single central cable, to which all computers and other devices are connected.
- (i) A _____ is a program that hides within or looks like a legitimate program.
- (j) A _____ absorbs and disperses heat produced by electrical components such as processor.
- (k) A _____ is a program that copies itself repeatedly.
- (l) Computer viruses, worms and Trojan horses are classified as _____.
- (m) _____ e-commerce is sale of goods and services to the general public.
- (n) On a _____, a cable forms a closed loop (ring) with all computers and devices arranged along the ring.
- (o) _____ e-commerce occurs when one consumer sells directly to another.
- (p) _____ is a potentially damaging computer program that infects the computer.
- (q) _____ is any hardware component that allows you to enter data and instructions into a computer.
- (r) _____ is a multisession optical disc on which users can write, but not erase.
- (s) The _____ performs arithmetic, comparison, and other operations.
- (t) On a _____, all of the computers and devices (nodes) on the network connect to a central device, thus forming a star.

(20 marks)

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Q2 Identify whether the statement given is TRUE or FALSE.

- (a) Biometrics is the technology of authenticating a person's identity by verifying personal characteristics.
- (b) Online storage is a service on the Web that provides hard disk storage to computer users, for free or for a minimal monthly fee.
- (c) A fingerprint reader, or scanner, captures curves and indentations of a fingerprint.
- (d) A Web site is a collection of unrelated Web pages and unassociated items.
- (e) Face recognition system captures a live face image and compares it with a stored image to determine if the person is a legitimate user.
- (f) Network is a collection of files and folders together via devices and media.
- (g) Most commonly used audio devices are speakers, headphones, and earphones.
- (h) Local Area Network (LAN) is a network that connects computers and devices in an unlimited geographical area.
- (i) A personal firewall is a utility that detects and protects a personal computer from unauthorized intrusions.
- (j) Metropolitan Area Network (MAN) is a low-speed network that connects networks within companies.
- (k) Fiber-optic cable consists of dozens or hundreds of thin strands of glass or plastic that uses light to transmit signal.
- (l) Buses are used to transfer bits from input devices to memory, from memory to the processor, from the processor to memory, and from memory to output or storage device.
- (m) Fax machine is a device that codes and encodes documents so that they can be transmitted over telephone lines.
- (n) Communication satellite is a space station that receives infrared signals from an earth-based station.
- (o) A record is a group of related fields.
- (p) DBMS is software that allows you to create, access, and manage a database.
- (q) A domain name is the text version of an IP address.
- (r) Cracker is someone who accesses a computer or network legally with no intent of destroying data or stealing information.
- (s) Cyberextortionist is someone who uses telephone for extortion.
- (t) Hardware theft is the act of stealing furniture.

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Q3 Answer the following questions based on the Excel TABLE 1 given.

TABLE 1

	A	B	C	D	E	F	G	H
1	SUMMARY OF EMPLOYEE OVERTIME PAYMENT FOR 6 MONTHS							
2								
3	IC Number	Department	Jan	Feb	Mar	Apr	Mei	Jun
4	881231016789	Sales	20.00	20.00	20.00	10.00	20.00	10.00
5	850123021231	Purchasing	20.00	20.00	20.00	20.00	20.00	10.00
6	981201017888	Sales	20.00	20.00	10.00	10.00	20.00	10.00
7	931011146422	Human Resource	10.00	10.00	10.00	20.00	20.00	20.00
8	940421057776	MIS	10.00	10.00	10.00	20.00	20.00	20.00
9	910716117613	Accounts	10.00	20.00	20.00	20.00	20.00	20.00
10	890919017864	Accounts	10.00	20.00	20.00	20.00	20.00	10.00
11	870505117653	Sales	20.00	10.00	10.00	10.00	10.00	20.00
12	900909011224	Sales	20.00	10.00	10.00	10.00	10.00	10.00
13	TOTAL		140.00	140.00	130.00	140.00	160.00	130.00

(a) Determine the answer that will be produced by the given formulas and functions based on the above Excel table.

- (i) = MID(A7, 7, 2)
- (ii) = LEFT(A12, 6)
- (iii) = SUM(E4:E12)
- (iv) = SUMIF(B4:B12, "Accounts", D4:D12)
- (v) = SUM(C4, G4, H12, D12)
- (vi) = COUNT(A4:A12)
- (vii) = COUNTIF(B4:B12, "Sales")
- (viii) = MOD(RIGHT(A5, 4), 2)
- (ix) = IF(MOD(RIGHT(A12, 4), 2)=0, "FEMALE", "MALE")
- (x) = IF(MOD(RIGHT(A11, 4), 2)=0, "FEMALE", "MALE")

(20 marks)

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PART B

Instruction : Answer TWO (2) Questions only.

- Q4 (a)** Define the following types of e-commerce and gives an appropriate example to it.
- (i) Business-to-consumer (B2C)
 - (ii) Customer-to-customer (C2C)
 - (iii) Business-to-business (B2B)
- (12 marks)
- (b)** Describe the precautions that computer users have to take to prevent the following types of injuries.
- (i) Repetitive Strain Injury (RSI)
 - (ii) Computer Vision Syndrome (CVS)
- (6 marks)
- (c)** Computer addiction occurs when the computer consumes someone's entire social life. Computer addiction is a growing health problem.
- List **TWO (2)** symptoms of computer user addiction.
- (2 marks)

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Q5 (a) Define the following uses of an operating system function and give an appropriate example to it.

- (i) Starting a computer.
- (ii) Providing a user interface.
- (iii) Managing programs.
- (iv) Managing memory.
- (v) Monitoring performance.
- (vi) Controlling a network.

(12 marks)

(b) Describe and give examples to the following terms.

- (i) System Software.
- (ii) Operating system.

(6 marks)

(c) A utility program allows a user to perform maintenance-type tasks usually related to managing a computer, its device, or its programs.

List **TWO (2)** examples of utility programs.

(2 marks)

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Q6 (a) Define the following terms.

- (i) Computer.
- (ii) Data.
- (iii) Information.
- (iv) Information technology.
- (v) Input devices.
- (vi) Output devices.

(12 marks)

(b) Describe the characteristics for the following computer categories.

- (i) Servers.
- (ii) Personal computers.

(6 marks)

(c) List **TWO (2)** disadvantages of computer usage.

(2 marks)

- END OF QUESTION -