

FINAL
Examination Paper

(COVER PAGE)

Session : August 2016

Programme : Diploma In Business (DIB)
Diploma In Mass Communication (DMCN)
Diploma In Information And Communication Technology (DICTN)

Course : ICT1100: Principles Of Information Technology

Date of Examination : 09 December, 2016 (Friday)

Time : 11:00am – 1:00pm Reading Time : Nil

Duration : 2 Hours

Special Instructions :

SECTION A: Answer ALL multiple choice questions.

SECTION B: Answer any **THREE (3)** essay questions.

IMPORTANT NOTE : THIS PAPER SHOULD NOT BE TAKEN OUT OF THE EXAMINATION HALL

Materials permitted : Nil

Materials provided : OMR Sheets

Examiner(s) : Tan Kok Cheng, Light Lau Teng Lye and Billy Siew

Moderator : Eric Sow Seah Kuan

This paper consists of 6 printed pages, including the cover page

DIPLOMA IN MASS COMMUNICATION PROGRAMME (DMCN)
DIPLOMA IN BUSINESS PROGRAMME (DIB)
DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY (DICTN)
ICT1100: PRINCIPLES OF INFORMATION TECHNOLOGY
FINAL EXAMINATION: AUGUST 2016 SESSION

Instruction: This paper consists of **TWO (2) SECTIONS**. Answer **ALL** questions in **SECTION A** and any **THREE (3)** questions in **SECTION B**.

SECTION A: Answer **ALL** questions in the OMR sheet provided. **(40 marks)**

1. An infected computer has one or more of the following symptoms except _____.
 - A. Available memory is less than expected
 - B. Programs or files work properly
 - C. Operating system runs much slower than usual
 - D. Existing programs and files disappear

2. The use of microfilm and microfiche provides all of the following advantages *except* _____.
 - A. they greatly reduce the amount of paper firms must handle
 - B. they are inexpensive
 - C. they have the longest life of any storage media
 - D. they can be read without a microfilm or microfiche reader

3. Which of the following device is described as a thin, lightweight mobile computer with a screen in its lid and a keyboard in its base?
 - A. Desktop
 - B. Phablet
 - C. Notebook
 - D. Facetop

4. With _____, the computer automatically can configure adapter cards and other peripherals as you install them.
 - A. Plug & Push
 - B. Push & Play
 - C. Plug & Play
 - D. Play & Install

5. Which of the following is not a storage medium?
 - A. USB flash drives
 - B. DVD drive
 - C. Memory cards
 - D. Optical discs

6. Which of the following is not an example of an Internet browser?
- A. Internet Explorer
 - B. Firefly
 - C. Safari
 - D. Google Chrome
7. The computer can read and write on the following optical discs except _____.
- A. DVD-RW
 - B. DVD+RW
 - C. DVD-ROM
 - D. DVD+RAM
8. Which of the following are commonly used input methods?
- A. Pen
 - B. Voice
 - C. Touch screens
 - D. All of the above
9. An _____ keyboard has a design that reduces the chance of repetitive strain injuries.
- A. Economic
 - B. Ergonomic
 - C. Egomanic
 - D. Dynamic
10. _____ is the most widely used coding scheme used to represent data.
- A. EBCDIC
 - B. ASRII
 - C. ASCII
 - D. DICEBC
11. Which of the following is not a measure of storage capacity?
- A. Yottabyte
 - B. Kilobyte
 - C. Megabyte
 - D. Gigibyte

12. Which of the following statements is **NOT** true?
- A. Items in a computer volatile memory remain intact even when you turn off the computer.
 - B. Capacity is the number of bytes a storage medium can hold.
 - C. A storage medium keeps data, information, programs, and applications.
 - D. Hard disks can store data using longitudinal or perpendicular recording.
13. Which of the following statement is **NOT** a task performed by an application software.
- A. To make business activities more efficient.
 - B. To assist with graphics and multimedia projects.
 - C. To facilitate communications.
 - D. To allow a user to perform maintenance-type tasks
14. The statements below describe software theft except _____.
- A. Intentionally erases programs
 - B. Illegally registers and/or activates a program
 - C. Intentionally pays for the use of the software
 - D. Illegally copies a program
15. Most of today's computers improve processing time with _____, which stores frequently used instructions and data.
- A. RAM
 - B. Cache
 - C. Pipes
 - D. Indices
16. Turning on a computer that has been powered off completely is referred to as _____.
- A. Hot boot
 - B. Warm boot
 - C. Chill boot
 - D. Cold boot
17. A single-user license agreement typically contains the following conditions except _____.
- A. Install the software on one computer
 - B. Install the software on a network
 - C. Remove the software from your computer before giving it away or selling it
 - D. Make one copy of the software as a backup

18. Compressed files sometimes are called _____.
- A. Tipped files
 - B. Ripped files
 - C. whipped files
 - D. zipped files
19. A _____ occurs when a read/write head touches the surface of a platter.
- A. tail crash
 - B. platter crash
 - C. head crash
 - D. surface crash
20. The Solid state drives (SSDs) have several advantages over magnetic hard disks except _____.
- A. Faster access time
 - B. Generate more heat
 - C. Faster transfer rates
 - D. Consume less power

SECTION B: Answer any **THREE (3)** questions in the answer booklet provided. **(60 marks)**

Question 1

- (a) Using suitable diagrams, distinguish the differences of a machine cycle that uses pipelining with that of a machine cycle that does not use pipelining. (10 marks)
- (b) Briefly explain any **FIVE (5)** types of utility program. (10 marks)
- (Total: 20 marks)**

Question 2

- (a) What is an input device? Briefly explain **FOUR (4)** pointing devices that can be used together with a computer. (10 marks)
- (b) Identify and explain any **FOUR (4)** types of business software. (10 marks)
- (Total: 20 marks)**

Question 3

- (a) What is a digital security risk? State **FIVE (5)** biometric systems a person can use to prevent unauthorized access and use.
(10 marks)
- (b) Briefly describe an impact printer and a non-impact printer. Provide at least **TWO (2)** examples for each category of printers named above
(10 marks)
- (Total: 20 marks)**

Question 4

- (a) What is a system failure? What are the **FOUR (4)** factors that can lead to a system failure? State **TWO (2)** ways to protect system failures caused by electrical power variations.
(10 marks)
- (b) Explain the following terms:
- i. Botnet
 - ii. Disk formatting
 - iii. OMR device
 - iv. Social engineering
- (10 marks)
- (Total: 20 marks)**