

INTI INTERNATIONAL UNIVERSITY

FOUNDATION IN SCIENCE
CSC1214 BASIC COMPUTING
FINAL EXAMINATION: AUGUST 2015 SESSION

Instructions: This paper consists of TWO (2) sections. **SECTION A** consists of TWENTY FIVE (25) multiple-choice questions. Students must answer **ALL** questions in the answer booklet provided. **SECTION B** consists of FOUR (4) essay questions. Students must answer **THREE (3)** questions in the answer booklet provided. All questions in the two respective sections carry equal marks.

SECTION A (25 Marks): Answer ALL Questions

1. Which of the following is a collection of data organized in a manner that allows access, retrieval, and use of that data?
 - (A) Database
 - (B) Server
 - (C) Spreadsheet
 - (D) Webbase
 - (E) Data

2. Which of the following is a request for specific data from a database?
 - (A) Index
 - (B) Ask
 - (C) Inquiry
 - (D) Return
 - (E) Query

3. Windows, Mac OS, and which other operating system constitute three desktop operating systems?
 - (A) Mozilla
 - (B) Internet Explorer
 - (C) Google Chrome
 - (D) Microsoft Office
 - (E) Linux

4. Which of the following kinds of software allows users to create and manipulate documents containing mostly text and sometimes graphics?
 - (A) Desktop publishing
 - (B) Contextual
 - (C) Image processing
 - (D) Word processing
 - (E) Spreadsheet

5. Which of the following kinds of software allows users to create visual aids for presentations to communicate ideas, messages, and other information to a group?
 - (A) Desktop publishing
 - (B) Contextual
 - (C) Image processing
 - (D) Word processing
 - (E) Presentation

6. Which of the following is a technique intruders use to make their network or Internet transmission appear legitimate to a victim computer or network?
 - (A) Rebuking
 - (B) Spoofing
 - (C) Transmitting
 - (D) Victimizing
 - (E) DOS attack

7. To read encrypted data, the recipient must decipher it into a readable form. What is the term for this process?
 - (A) Re-securing
 - (B) Decryption
 - (C) Assessment
 - (D) Digitization
 - (E) Encryption

8. Which of the following is an authorized person or company that issues and verifies digital certificates?
 - (A) Certificate authority
 - (B) Certificate agency
 - (C) Certificate office
 - (D) Certificate bureau
 - (E) Certificate printer

9. With which of the following do users choose which folders and files to include in a backup?
 - (A) Full backup
 - (B) Incremental backup
 - (C) Differential backup
 - (D) Selective backup
 - (E) All backup

10. Websites use which of the following to keep track of items in a user's shopping cart?
 - (A) Session cookie
 - (B) Zombie
 - (C) Adware
 - (D) Shopping bot
 - (E) Memory

11. Which of the following is the component of the processor that performs arithmetic, comparison, and other operations?
 - (A) Machine unit
 - (B) Control unit
 - (C) ALU
 - (D) CPU
 - (E) PC

12. Which of the following is the most common type of volatile memory?
 - (A) ROM
 - (B) Flash memory
 - (C) CMOS
 - (D) RAM
 - (E) MEM

13. Which of the following allows the processor to communicate with peripheral devices?
 - (A) Expansion bus
 - (B) Index bus
 - (C) Interpolated bus
 - (D) Power bus
 - (E) School bus

14. Which of the following is a type of nonvolatile memory that can be erased electronically and rewritten?
 - (A) Flash memory
 - (B) L1 cache
 - (C) Firmware
 - (D) Microcode
 - (E) Super memory

15. What is the definition of software?
- (A) a collection of unprocessed text, numbers, images, audio, and video
 - (B) a series of related instructions that tells a computer or mobile device the tasks to perform and how to perform them
 - (C) an instruction issued by replying to a question that is displayed
 - (D) an instruction that causes a single specific action to be performed
 - (E) a collection of actions to undertake
16. In a graphical user interface, which of the following is a small symbol on the screen whose location and shape changes as a user moves a pointing device?
- (A) Index
 - (B) Keypad
 - (C) Pointer
 - (D) Keystroke
 - (E) Mouse
17. Who can establish standard user accounts that allow alterations to security settings?
- (A) Administrator
 - (B) Secured user
 - (C) Key users
 - (D) Any users
 - (E) Guest
18. Which kind of printer forms characters and graphics on a piece of paper without actually striking the paper?
- (A) Nonimpact
 - (B) Dot matrix
 - (C) Shuttle-matrix
 - (D) Line
 - (E) Impact
19. Which of the following are audio output devices that cover or are placed outside the ear?
- (A) Earphones
 - (B) Earbuds
 - (C) headphones
 - (D) VoIPs
 - (E) Smart phone
20. Which of the following kinds of printers offers an alternative for blind users?
- (A) Braille
 - (B) Utility
 - (C) High-contrast
 - (D) Magnifier
 - (E) Blind printer

21. Which of the following is a type of optical disc that users can read from but not write to or erase?
- (A) CD-R
 - (B) CD-RW
 - (C) DVD-ROM
 - (D) DVD-RW
 - (E) RW-ROM
22. Which of the following kinds of access refers to reading or writing data consecutively?
- (A) Direct
 - (B) Random
 - (C) Sequential
 - (D) Indexed
 - (E) Indirect
23. Which of the following is a set of programs containing instructions that coordinate all the activities among computer hardware resources?
- (A) Operating system
 - (B) Disk-based system
 - (C) Management system
 - (D) Platform system
 - (E) Non system
24. Which of the following is the process of initiating contact between two Bluetooth devices and allowing them to communicate with each other?
- (A) Streamlining
 - (B) Discovering
 - (C) Docking
 - (D) Pairing
 - (E) Marriage
25. Which of the following is NOT a wireless Internet connection?
- (A) Wi-Fi
 - (B) DSL
 - (C) Mobile broadband
 - (D) Satellite
 - (E) 4G

SECTION B (75 Marks): Answer THREE (3) Questions**Question 1**

- a) Define the terms data and information. (2 marks)
- b) Explain **THREE (3)** advantages and **THREE (3)** disadvantages of computer. (9 marks)
- c) Define the following terms:
i. Register
ii. Bus
iii. Plug and play (6 marks)
- d) List and explain any **FOUR (4)** factors that determine the quality of a LCD device. (8 marks)

Question 2

- a) Explain OCR in detail and suggest where OCR is used for. (4 marks)
- b) List the **THREE (3)** basic categories of items stored in the computer memory. (3 marks)
- c) Explain the **FOUR (4)** operations of machine cycle performed by a processor. (8 marks)
- d) Define the following:
i. Video conference
ii. Voice input
iii. Motion input
iv. Touch screen
v. Magstripe readers (10 marks)

Question 3

- a) What does it mean by the term “access time” for secondary storage devices? Briefly explain **THREE (3)** factors that affect the access time. (8 marks)
- b) What is the difference between primary and secondary storage? Give **TWO (2)** examples for each. (6 marks)
- c) Database Management Software is used to store data in a centralized location, which is considered more efficient than traditional file approach. List **FIVE (5)** advantages of this approach as compared to traditional file methods. (5 marks)
- d) Software is available in different variety of forms, such as retail software, freeware and custom software. Explain these **THREE (3)** types and give **ONE (1)** example for each. (6 marks)

Question 4

- a) Define computer crime. For each of the following computer crimes, identify a suitable solution that can overcome or reduce the risk:
- i) Hacking
 - ii) Spreading a virus file
 - iii) Installing a software into second or third computer
 - iv) Stealing a system unit from a computer lab
 - v) Accessing to a file without permission
 - vi) Stealing confidential information
 - vii) Accessing a phishing site
 - viii) Data wipe out due to security threat
- (8 marks)
- b) What is backup? The most common backup method used nowadays is cloud storage. Briefly explain **TWO (2)** benefits of using cloud storage. (6 marks)
- c) **Information privacy** refers to the right of individuals and companies to deny or restrict the collection and use of information about them. List any **FIVE (5)** ways on how an individual can protect his/her own private information. (5 marks)
- d) Explain the following terms:
- i) phishing
 - ii) spyware
 - iii) adware
- (6 marks)