

FINAL

ALTERNATIVE ASSESSMENT

(COVER PAGE)

Session : April 2022

Programme : Certificate in Information Technology (CIT)

Course : **CIT1000: Introduction to Information Technology**

Date of Examination : August 1, 2022 (Monday)

Time : 8:00am – 10:30am Reading Time : Nil

Duration : 2 hours 30 minutes

Special Instructions :

This paper consists of **TWO (2) SECTIONS**. Answer **ALL TWENTY (20)** questions in **SECTION A**, and Answer **ALL THREE (3)** questions in **SECTION B**.

Note: 30 minutes is added into the duration of the examination to factor in any connectivity matters and for you to scan and upload your scripts.

Material permitted : NIL

Materials provided : NIL

Examiner(s) : **Mr Victor Raj** and Dr Nor Rahayu Ngatirin

Chief Moderator : Ms Shee Fui Chie

This paper consists of 7 printed pages, including the cover page

CERTIFICATE IN INFORMATION TECHNOLOGY PROGRAMME (CIT)
CIT1000: INTRODUCTION TO INFORMATION TECHNOLOGY
FINAL ALTERNATIVE ASSESSMENT: APRIL 2022 SESSION

SECTION A (40 marks)

Instruction: This section consists of **TWENTY (20)** questions. Answer **ALL** questions.
All questions carry equal marks.

1. A _____ is an electrical device that runs on instructions stored in its internal memory.
 - A. machine
 - B. calculator
 - C. computer
 - D. mp3 player

2. When utilizing a computer, _____ means lowering the amount of electricity used and the amount of garbage produced.
 - A. green computing
 - B. blue computing
 - C. red computing
 - D. cloud computing

3. Users can build visual aids for presentations using _____ to express ideas, messages, and other information to a group.
 - A. word processing software
 - B. spreadsheet software
 - C. presentation software
 - D. database software

4. A personal _____ is a type of security system that detects and prevents illegal access to a computer and its information.
 - A. access server
 - B. firewall
 - C. portal
 - D. secure site

5. Which of the following can cool a processor chip?
- A. heat sinks
 - B. liquid cooling technology
 - C. cooling pads
 - D. all of the above
6. _____ are memory chips that hold persistent data and instructions.
- A. Read-only memory (ROM)
 - B. Random access memory (RAM)
 - C. Memory cache
 - D. Flash memory
7. The system unit's casings, also known as the _____, are composed of plastic or metal and serve to shield the interior electronic components from harm.
- A. form factor
 - B. motherboard
 - C. chassis
 - D. chip
8. All computer processes are timed according to the _____.
- A. system clock
 - B. alarm clock
 - C. wall clock
 - D. world clock
9. Instead of reading or scanning data from a source document, a _____ device obtains data directly at the location where the transaction or event takes place.
- A. recognition
 - B. scanning
 - C. transmission
 - D. data collection

10. Which of the following is **NOT** a commonly used input method?
- A. Pointing devices
 - B. Speaker
 - C. Touch screens
 - D. Scanners and reading devices
11. A _____ may be a little image on the screen whose area and shape alter as a client moves an indicating device.
- A. pixel
 - B. pointer
 - C. mouse
 - D. cursor
12. A _____ stores data in both a vertical and even heading.
- A. programming code
 - B. computer code
 - C. QR code
 - D. source code
13. Numerous clients connect encompass sound _____ to their computers, diversion comforts, and portable gadgets to create higher-quality sounds.
- A. subwoofers
 - B. speakers
 - C. phones
 - D. earbuds
14. An infected file is kept in _____ on a hard drive until the virus can be treated.
- A. quarantine
 - B. payload
 - C. firewall
 - D. honeypot

15. A network with extensive coverage is referred to as _____.
- A. Local Area Network (LAN)
 - B. Personal Area Network (PAN)
 - C. Metropolitan Area Network (MAN)
 - D. Wide Area Network (WAN)
16. GPS receivers are found in the following **EXCEPT** _____.
- A. tree
 - B. car
 - C. smartphone
 - D. dog collar
17. Which of the following is the disadvantages of a database approach?
- A. Can be more complex than a file processing system
 - B. Require more memory and processing power
 - C. Data can be more vulnerable
 - D. All of the above
18. Which of the following is **NOT** characteristics of processed data?
- A. Organized
 - B. Meaningful
 - C. Cluttered
 - D. Useful
19. With a _____, the programmer writes instructions using English-like words that tell the computer what to accomplish and how to do it.
- A. Machine language
 - B. Human language
 - C. Assembly language
 - D. Procedural language
20. _____ are examples of programming languages.
- A. D# and LavaScript
 - B. C# and JavaScript
 - C. B# and DivaScript
 - D. A# and KavaScript

SECTION B: (60 marks)

Instructions: This section consists of **THREE (3)** questions. Answer **ALL** questions. All questions carry equal marks.

Question 1

- (a) Describe **FIVE (5)** strategies involves in reducing the electricity consumed and environmental waste generated when using a computer.

(10 marks)

- (b) Identify and explain **FIVE (5)** variety of forms on how programs and apps are distributed.

(10 marks)

(Total: 20 marks)

Question 2

- (a) List **FIVE (5)** factors that affect the quality of a display.

(5 marks)

- (b) List **FIVE (5)** advantages of solid state drive (SSD) over traditional (magnetic) hard disks.

(5 marks)

- (c) Briefly explain the network communications standards and protocols stated below:

- (i) Wi-Fi
- (ii) LTE
- (iii) Bluetooth
- (iv) IrDA
- (v) RFID

(10 marks)

(Total: 20 marks)

Question 3

- (a) Describe **FOUR (4)** functions of database management system (DBMS).
(10 marks)
- (b) Explain the **FIVE (5)** phases in the **System Development Life Cycle (SDLC)**.
(10 marks)
(Total: 20 marks)

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