



**FINAL EXAMINATION**  
**MARCH 2024**

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<b>COURSE TITLE</b>	<b>INTRODUCTION TO INFORMATION TECHNOLOGY</b>
<b>COURSE CODE</b>	<b>RCIT1123</b>
<b>DATE/DAY</b>	<b>19 JUNE 2024 / WEDNESDAY</b>
<b>TIME/DURATION</b>	<b>02:00 PM - 04:00 PM / 02 Hour(s) 00 Minute(s)</b>

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**INSTRUCTIONS TO CANDIDATES :**

1. Please read the instruction under each section carefully.
2. Candidates are reminded not to bring into examination hall/room any form of written materials or electronic gadget except for stationery that is permitted by the Invigilator.
3. Students who are caught breaching the Examination Rules and Regulation will be charged with an academic dishonesty and if found guilty of the offence, the maximum penalty is expulsion from the University.

(This Question Paper consists of 7 Printed Pages including front page)

**\*\*\*DO NOT OPEN THE QUESTION PAPER UNTIL YOU ARE TOLD TO DO SO\*\*\***

**This question paper contains TWO (2) sections in this examination paper. Please answer ALL questions in the answer booklet. [50 Marks]**

**SECTION A (20 Marks)**

**There are TWENTY (20) questions on this part of the examination paper. Answer ALL questions in the answer booklet.**

1. The keyboard, mouse, display and system unit are categorized as \_\_\_\_\_.
  - A. hardware
  - B. output devices
  - C. storage devices
  - D. software
  
2. Although not as powerful as a supercomputer, which of the following types of computers capable of great processing speeds and data storage?
  - A. Mainframe.
  - B. Midrange.
  - C. Laptop.
  - D. Tablet.
  
3. Which of the following types of a file created by word processors, for example, memos, term papers, and letters?
  - A. database
  - B. document
  - C. presentation
  - D. worksheet
  
4. The largest network in the world is [the] \_\_\_\_\_.
  - A. Facebook
  - B. Internet
  - C. supercomputer
  - D. web

5. Using **file transfer utility software (FTP)**, you can copy files to your computer from specially configured servers on the Internet. This is called as \_\_\_\_\_.
- A. downloading
  - B. filtering
  - C. blogging
  - D. uploading
6. Which of the following is the most popular microblogging site?
- A. LinkedIn
  - B. Google+
  - C. Twitter
  - D. Wikipedia
7. Which standard specifies the Ethernet MAC sublayer functionality in a NIC?
- A. IEEE 802.3
  - B. IEEE 802.2
  - C. IEEE 802.15
  - D. IEEE 802.11
8. This type of software works with end user, application software, and computer hardware to handle the majority of technical details.
- A. ribbon
  - B. specialized
  - C. system
  - D. utility
9. On a computer screen, a rectangular area that can contain a document, program or message is called as \_\_\_\_\_.
- A. dialog box
  - B. form
  - C. frame
  - D. window

10. Programs that create text-based documents are categorized as \_\_\_\_\_.
- A. DBMS
  - B. suites
  - C. spreadsheets
  - D. word processors
11. Which application layer protocol uses encryption in transmitting data?
- A. DHCP.
  - B. DNS.
  - C. FTP.
  - D. HTTPS.
12. Office 365 is a/an \_\_\_\_\_.
- A. cloud suite
  - B. integrated suite
  - C. business suite
  - D. utility suite
13. What type of software works with users, application software and computer hardware to handle the majority of technical details?
- A. application
  - B. Linux
  - C. desktop
  - D. system
14. What is a network vulnerability?
- A. The degree of weakness inherent in a network.
  - B. Tools used to launch attacks against a network.
  - C. Individuals interested and qualified in taking advantage of security weaknesses.
  - D. Ping of death.
15. The ability to switch between different applications stored in memory is called \_\_\_\_\_.
- A. diversion
  - B. operational interference
  - C. multitasking
  - D. programming

16. In computing, an \_\_\_\_\_ is a pictogram or ideogram displayed on a computer screen in order to help the user navigate a computer system.
- A. app
  - B. image
  - C. icon
  - D. software
17. The operating system based on Linux, designed for a notebook computers that use cloud computing and cloud storage is called \_\_\_\_\_.
- A. Chrome
  - B. UNIX
  - C. Mac
  - D. Windows
18. \_\_\_\_\_ is a troubleshooting utility that identifies and eliminates non-essential files, frees up valuable disk space and improves system performance.
- A. File History
  - B. Storage
  - C. Disk Cleanup
  - D. Compactor
19. Which TCP header field specifies the number of bytes that can be accepted before an acknowledgement is required?
- A. Acknowledgement number
  - B. Header length
  - C. Window size
  - D. Checksum
20. Which network protocol should a network administrator use to remotely configure a network device?
- A. File Transfer Protocol (FTP)
  - B. Hyper Text Transfer Protocol (HTTP)
  - C. Telnet
  - D. Secure Shell (SSH)

**SECTION B**

**(30 Marks)**

There are **TWO (2)** questions in this part of the examination paper. Answer **ALL** questions in the answer booklet.

1. A database is an organized collection of structured and unstructured data, stored and accessed electronically to support a wide range of activities, including data storage, data analysis and data management using database management system (DBMS).
  - a) List down **THREE (3)** problems of managing data resources in a traditional environment. (3 marks)
  - b) Describe each of the problems mentioned in **Q1(a)** and give an example for each of them. (6 marks)
  - c) Explain **TWO (2)** major capabilities of DBMS and illustrate the DBMS table. (6 marks)
  
2. Multimedia is a form of communication that uses a combination of different content forms, such as writing, audio, images, animations or video into a single interactive presentation.
  - a) List down **TWO (2)** types of media. (2 marks)
  - b) Explain each of the types mentioned in **Q2(a)** and give an example for each of them. (6 marks)
  - c) List down **TWO (2)** categories of graphics. (2 marks)
  - d) Explain **ONE (1)** advantage and **ONE (1)** disadvantage of each category mentioned in **Q2(c)**. (5 marks)

**\*\*\* END OF QUESTION PAPER \*\*\***