



FINAL SEMESTER EXAMINATION

Programme	:	DIPLOMA IN BUSINESS STUDIES DIPLOMA IN LOGISTICS MANAGEMENT DIPLOMA OF ACCOUNTANCY
Course	:	COMPUTER APPLICATION
Course Code	:	DTCT3013
Duration	:	3 Hours

INSTRUCTIONS TO CANDIDATES:

1. Please read the instructions given in the question paper **CAREFULLY**.
2. This question paper consists of **FOUR (4)** questions
3. Answer **ALL** questions in the question paper.
4. Answers to the questions are to be written into the examination booklet.
5. Electronic dictionaries, lecture notes, files or any unauthorised materials except writing equipment are strictly prohibited.

This question paper must be submitted along with all used and/or unused rough papers and/ or graph papers (if any). Candidates are **NOT ALLOWED** to take any examination paper(s) used or unused out of the examination hall.

WARNING:

The Examination Board of Peninsula College Georgetown regards cheating as a very serious offence and will not hesitate to mete out the appropriate punitive actions according to the severity of the offence committed, and in the accordance with the clauses stipulated in the Students' Handbook, up to and including expulsion from Peninsula College Georgetown.

(This booklet contains 3 printed pages including this page)

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ALLOWED TO DO SO

For examiner's use only

QUESTION NO.	MARKS
1	/ 25
2	/ 25
3	/ 25
4	/ 25
Total	/ 100

Answer **ALL** questions on the separate sheet provided.

[100 marks]

1. Consider yourself as a small restaurant business owner and you need to set up a personal desktop computer for your business.

a) Identify **SIX (6)** main hardware that you need to build the custom desktop computer. (12 marks)

b) Compare the **THREE (3)** available Operating System (OS) software listed below and decide which OS would you choose to be installed on your custom desktop computer. (8 marks)

- Ubuntu
- Windows
- macOS

c) List down **FIVE (5)** application software that would be useful to run your business. (5 marks)

Total: [25 marks]

2. a) Explain what a computer RAM is and why it is considered a volatile memory. (6 marks)

b) Describe the function of a solid-state drive in a computer and why it is considered a non-volatile memory. (6 marks)

c) Explain the function of a computer CPU and list down **TWO (2)** companies that produce computer CPUs. (5 marks)

d) Identify **FOUR (4)** advantages of using computers in our daily lives. (8 marks)

Total: [25 marks]

3. a) Define **THREE (3)** reasons to use a computer network. . (6 marks)

b) Justify the difference between the three networks below:

i. LAN: (3 marks)

ii. MAN: (3 marks)

iii. WAN: (3 marks)

- c) Contrast **FOUR (4)** positive impacts of the Internet on society. (10 marks)
Total: [25 marks]
4. a) Discuss **TWO (2)** benefits of the Internet of Things (IoT). (4 marks)
- b) Describe the **TWO (2)** IoT applications below.
- i. Home Automation (3 marks)
 - ii. Smart Watch (3 marks)
- c) Define the meaning of Artificial intelligence (AI) and briefly describe how it works. (4 marks)
- d) Describe the **TWO (2)** AI applications below.
- i. Facial Recognition (3 marks)
 - ii. Natural Language Processing (3 marks)
- e) Briefly explain how AI can be applied in IoT systems. (5 marks)
Total: [25 marks]

- END OF QUESTIONS -