



PENINSULA
C O L L E G E
GEORGETOWN

FINAL SEMESTER EXAMINATION

Programme	:	DIPLOMA IN COMPUTER SCIENCE DIPLOMA IN E-BUSINESS TECHNOLOGY DIPLOMA IN TRAVEL AND TOURISM MANAGEMENT
Course	:	INTRODUCTION TO INFORMATION TECHNOLOGY AND APPLICATIONS
Course Code	:	DCS1113 DEB1123 TTM1113
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 4 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. a) Describe **ONE (1)** difference between volatile and non-volatile memory with appropriate example. (4 Marks)

- b) Elaborate **THREE (3)** factors in System Performance. (6 Marks)

- c) Summarize Data Representation by explaining how computers represent data. (7 Marks)

- d) Computer can be categorized into five categories; supercomputer, mainframe, personal computer, mobile computer, and embedded computer.
 - i) Explain **TWO (2)** advantages of embedded computer. (4 Marks)
 - ii) Supercomputer is the most powerful computer. Elaborate **TWO (2)** reasons why. (4 Marks)

Total: [25 Marks]

2. a) Information System is the combinations of technology (hardware and software), people, process and data.
 - i) In organizational settings, describe the use of Information system with appropriate example. (3 Marks)
 - ii) Write **THREE (3)** points that explain Transaction Processing System (TPS). (6 Marks)

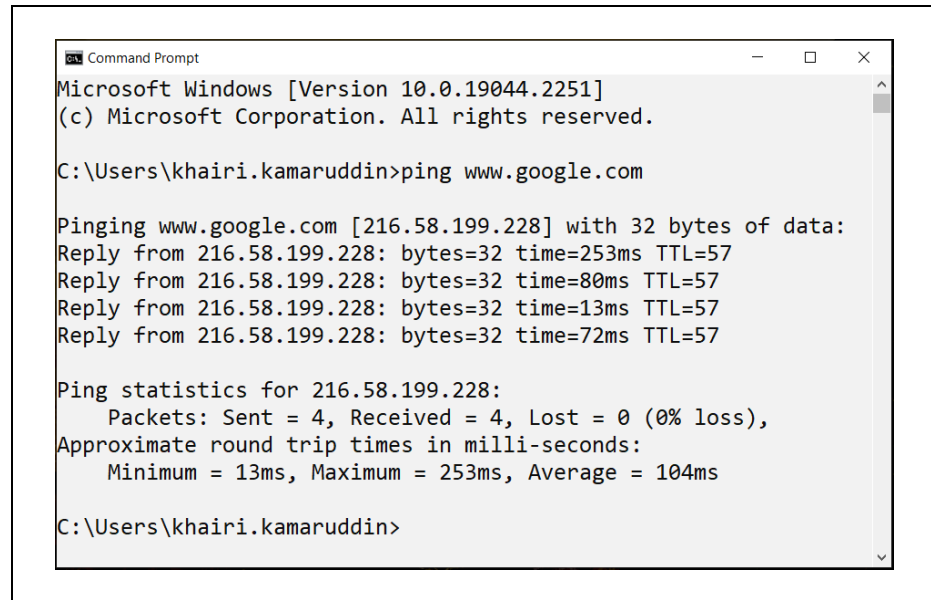
- b) Based on type of Information System, illustrate **FOUR (4)** organizational levels and information requirements in pyramid form. (4 Marks)

- c) List **FOUR (4)** fundamental process activities that are common to all software processes or methodologies. (4 Marks)

- d) System Development Methodologies consist of three common methods; Waterfall, Iterative and Spiral Methodology.
 - i) State **FOUR (4)** characteristics of Waterfall Model. (4 Marks)
 - ii) Identify **FOUR (4)** advantages of Iterative Model. (4 Marks)

Total: [25 Marks]

3. a)



```
Command Prompt
Microsoft Windows [Version 10.0.19044.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\khairi.kamaruddin>ping www.google.com

Pinging www.google.com [216.58.199.228] with 32 bytes of data:
Reply from 216.58.199.228: bytes=32 time=253ms TTL=57
Reply from 216.58.199.228: bytes=32 time=80ms TTL=57
Reply from 216.58.199.228: bytes=32 time=13ms TTL=57
Reply from 216.58.199.228: bytes=32 time=72ms TTL=57

Ping statistics for 216.58.199.228:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 13ms, Maximum = 253ms, Average = 104ms

C:\Users\khairi.kamaruddin>
```

Figure 1: Command Prompt Box

Figure 1 above shows a process that has been executed in Command Prompt. Interpret **TWO (2)** necessity of above process. (4 Marks)

b) Provide **FOUR (4)** differences between Internet and Intranet. (8 Marks)

c) Computer Security is a protection of data, networks, computer programs, computer power, and other elements of computerized information systems. Internet Security involves specific resources and standards for protecting data that gets through the Internet.

i) Name any **FOUR (4)** types of viruses with explanation. (8 Marks)

ii) Propose **TWO (2)** ways to increase computer security. (5 Marks)

Total: [25 Marks]

4. a)

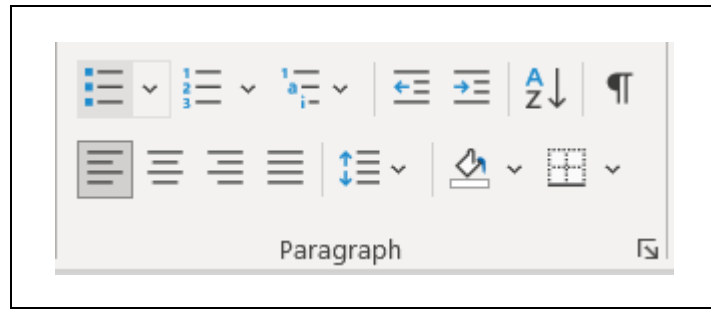


Figure 2: Paragraph group ribbon in Home tab.

Figure 2 shows Paragraph group ribbon in Home tab for Microsoft Word. Based on four type of paragraph alignment. Choose the most suitable alignment for report and state your reason. (3 Marks)

- b) Microsoft Excel is the industry leading spreadsheet software program, a powerful data visualization and analysis tool.
- Describe the main purpose of formula in Microsoft Excel with appropriate example. (3 Marks)
 - Discuss **THREE (3)** industrial case scenario that can make use of Microsoft Excel. (6 Marks)
- c) Provide **FOUR (4)** general tips in preparing presentation slide using Microsoft PowerPoint. (8 Marks)
- d) Determine **TWO (2)** purposes of citation. (5 Marks)

Total: [25 marks]

- END OF QUESTIONS -