

FINAL SEMESTER EXAMINATION

Programme	:	FOUNDATION IN ARTS
Course	:	BASIC INFORMATION AND COMMUNICATION TECHNOLOGY
Course Code	:	FA1113
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 Digital Content Creator and you are in need to custom built your own personal desktop computer.

a) Prepare a list of **SEVEN (7)** main hardware that you need to build the computer and briefly describe each of the hardware function. (14 marks)

b) There are **FOUR (4)** available Operating System (OS) software listed below, compare the difference between them and justify which one is suitable to be installed on your custom desktop computer. (11 marks)

i) Harmony OS

ii) Ubuntu

iii) Mac OS

iv) Windows

Total: [25 marks]

2. a) Define the advantage of broadband internet connection as compared to the traditional internet connection. (2 marks)

b) Describe the main characteristic of the following Internet connections.

i) Dial-up Connections (2 marks)

ii) Digital Subscriber line (2 marks)

iii) Fiber Optic (2 marks)

iv) Wireless (2 marks)

c) Identify which of the four internet connections listed in Question 2 b) is **NOT** a broadband connection. (2 marks)

d) Sketch the following network topology.

i) Bus (3 marks)

ii) Ring (3 marks)

iii) Mesh (3 marks)

e) Based on Figure 1, name the type of network topology shown and discuss the major disadvantage of this topology. (4 marks)

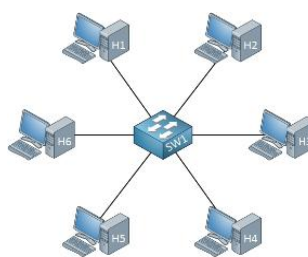


Figure 1: A type of Network Topology

Total: [25 marks]

3. a) Identify **FIVE (5)** components of multimedia. (5 marks)
- b) Imagine yourself as a clothing business owner, identify **FOUR (4)** ways on how you can apply multimedia to market your business. (10 marks)
- c) Contrast the difference between pure e-commerce and partial e-commerce. (4 marks)
- d) Give **THREE (3)** platforms that provides pure e-commerce services and **THREE (3)** platforms that provides partial e-commerce services. (6 marks)

Total: [25 marks]

4. a) Define the meaning of artificial intelligence (AI). (3 marks)
- b) There are **THREE (3)** categories of artificial intelligence (AI) based on its capability which are Narrow AI, General AI, and Super AI.
Explain each of the categories and justify which one of these is currently used the most. (8 marks)
- c) Explain **FOUR (4)** applications of artificial intelligence AI in real world. (8 marks)
- d) The global labour market is increasingly adopting AI and other Industrial Revolution 4 technologies.

Point out **THREE (3)** jobs that are now being taken over by technology. (6 marks)

Total: [25 marks]

- END OF QUESTIONS -