



FINAL EXAMINATION

Semester	:	SEPTEMBER 2024 SEMESTER
Programme Name	:	FOUNDATION OF ARTS
Course Code & Name	:	FA1113 BASIC INFORMATION AND COMMUNICATION TECHNOLOGY (BASIC ICT)
Duration	:	3 HOURS

INSTRUCTIONS TO CANDIDATES:

1. Please read the instructions given in the question paper **CAREFULLY**.
2. The 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 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

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

[100 marks]

1.
 - a) List **FIVE (5)** key technologies for Industrial Revolutions 4.0 (IR4.0) that contribute to the transforming manufacturing and industrial processes. (5 marks)

 - b) Explain the **FIVE (5)** challengers that organizations face in the context of Industry 4.0 (IR4.0). (10 marks)

 - c) Discuss the differences between E-Commerce and E-Business. (5 marks)

 - d) State **FIVE (5)** essential tips for ensuring customer safe online shopping and how it helps to protect consumers from potential risks. (5 marks)

Total: [25 marks]

2.
 - a) Explain the following technologies.
 - i) FinTech (2.5 marks)
 - ii) Cryptocurrency (2.5 marks)

 - b) Explain the differences between cryptocurrency and blockchain technology. (5 marks)

 - c) Identify **FOUR (4)** types of models utilized in cloud computing. (4 marks)

 - d) Discuss **THREE (3)** advantages of cloud services, highlighting how they benefit businesses. (6 mark)

 - e) Describe the following security risks associated with cloud computing.
 - i) Data loss (2.5 marks)
 - ii) Business lock in (2.5 marks)

Total: [25 marks]

3.
 - a) Explain the **FOUR (4)** key components of Internet of Things (IoT). (8 marks)

 - b) List **FOUR (4)** common IoT applications. (4 marks)

- c) Briefly explain the difference between virtual reality and augmented reality. (5 marks)
- d) Briefly explain **TWO (2)** positive and **TWO (2)** negative impact of virtual collaboration. (4 marks)
- e) Recommend **TWO (2)** elements of multimedia that can be included to the software to make it more efficient with appropriate justification. (4 marks)
Total: [25 marks]
4. a) Discuss **THREE (3)** ways in which artificial intelligence could enhance the future of education. (6 marks)
- b) If you had the chance to start a technology-based business, briefly describe the type of business you would choose. (3 marks)
- c) Referring to your response in (b), identify **FOUR (4)** technologies that would support your business and provide justifications for your choices. (16 marks)
Total: [25 marks]

- END OF QUESTIONS -