

FINAL SEMESTER EXAMINATION

Programme	:	FOUNDATION OF ARTS (MQA/PA13891)
Intake	:	SEPTEMBER 2021
Course	:	BASIC INFORMATION AND COMMUNICATION TECHNOLOGY (BASIC ICT)
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 unauthorized 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)

For examiner's use only

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

Answer **ALL FOUR (4)** questions on the separate sheet provided.

[100 marks]

1.
 - a) State **FIVE (5)** key technologies for Industrial Revolutions 4.0 (IR4.0) (5 marks)
 - b) Explain **FIVE (5)** challengers of Industrial Revolution 4.0. (10 marks)
 - c) Differentiate between E-Commerce and E-Business. (5 marks)
 - d) State **FIVE (5)** tips for safe electronic shopping. (5 marks)

2.
 - a) Describe the following technologies.
 - i. FinTech (2.5 marks)
 - ii. Cryptocurrency (2.5 marks)
 - b) Differentiate between cryptocurrency and blockchain technology. (5 marks)
 - c) State **FOUR (4)** types of models used for deployment in cloud computing. (4 marks)
 - d) Explain **THREE (3)** advantages of cloud services. (6 marks)
 - e) Explain the following security risk in cloud computing.
 - i. Data Loss (2.5 marks)
 - ii. Business Lock-In (2.5 marks)

3.
 - a) Briefly describe **FOUR (4)** fundamental components of Internet of Things (IoT). (8 marks)
 - b) List **THREE (3)** common IoT applications. (3 marks)

- c) Differentiate between virtual reality and augmented reality. (5 marks)
- d) Determine **TWO (2)** positive and negative impact of virtual collaboration during the pandemic Covid -19. (4 marks)
- e) List **ONE (1)** virtual collaboration software that you know. (1 marks)
- f) Recommend **TWO (2)** elements of multimedia that can be included to the software stated in (e) to make it more efficient with appropriate justification. (4 marks)
4. a) Explain **THREE (3)** ways artificial intelligence could benefit the future of education. (6 marks)
- b) If you are given the opportunity to open a technology-based business. Briefly, describe nature of your business. (3 marks)
- c) Based on your answer in (b), list **FOUR (4)** technologies that will help your business and justify your answers. (16 marks)

- END OF QUESTIONS -