

FACULTY OF COMMERCE

BACHELOR OF COMMERCE HONOURS DEGREE IN PROJECT MANAGEMENT

BUSINESS INFORMATION COMMUNICATION TECHNOLOGY

HPMG 112

PART 1 SEMESTER 1

Total Marks [100]

DATE: DECEMBER 2023

Time: 3 Hours

INSTRUCTIONS

- 1. This paper has six (6) questions
- 2. Answer question one (1) and any other three (3)
- 3. Each question carries 25 marks
- 4. Start each question on a new page

Question 1

a) Explain the features of a graphical user interface as used in co	omputers.
	(4)
b) Work out the hexadecimal equivalent of 1011111100011 ₂	(3)
c) Convert	
(i) 111.101 ₂ to decimal;	(2)
(ii) 14.6875 ₁₀ to binary.	(2)
(iii) -17 ₁₀ into 8-bit representation	(4)
d) Perform the following arithmetic operation	(4)
$110.11_2 + 11.011_2$	
e) Discuss the following components of the CPU	(6)
(i) Arithmetic Logic Unit	
(ii) Control Unit	
(iii) Registers	
c) Differentiate between system and application software citie	ng examples.
	(6)
d) Using diagrams, describe three network topologies used to	show the
configuration of computers	(6)
Question 2	
(a) Explain the importance of networking in today's digital age.	(8)

(b) Distinguish between Database and Database Management System	m
(DBMS).	(4)
(c) Differentiate between Primary and Secondary Memory, providing	ig two
examples for each. (6)	
(d) Explain how a computer uses its memory during its operation.	(6)
Question 3	
(a) Explain the major differences between a random access and a s device.(b) (i) Explain THREE advantages and THREE disadvantages of l	(5)
in comparison with ink jet printers. (6)	aser printer.
(ii) Describe the operating principles of both types of printers.	(6)
(c) Explain THREE functions of antivirus software.	(6)
(d) Describe any THREE different types of cyber threats.	(6)
Question 4	*
Discuss any four types of networks that can be used at an educational	institution.
(25)	
Question 5	
a) Explain what an Operating System is, and discuss its various functi	ons. (10)

(b) Discuss how information technology can change the context of business management. (15)

Question 6

'The increasing number of people now using the internet to meet new people and socialise has brought people closer together'. Discuss. (25)

End of Pape r