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University Examinations 2023/2024

FIRST YEAR, SECOND SEMESTER EXAMINATION FOR THE DIPLOMA IN
INFORMATION TECHNOLOGY

CIT 2214: ASSEMBLY AND MAINTENANCE OF PC

DATE: APRIL 2024

TIME: 1¹/₂ HOURS

INSTRUCTIONS:

1. Answer Question ONE, and any other TWO
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QUESTION ONE (30 MARKS)

- a. Differentiate between storage and storage devices. (2mks)
 - ii. Explain three common Basic Technologies for Storing Binary Information (6mks)
 - iii. List important characteristics of storage devices. (3marks)
- b. Describe the differences between **RAM** and **ROM** (4marks)
- c. List 2 components of a **CPU** (2 marks)
- d. Using appropriate examples explain three input and 3 output devices (6 marks)
- e. Define a computer virus. (2 marks)
 - ii. Describe four examples of computer viruses. (4 marks)
- f. Give the uses of (1 marks)
 - i. Power supply

QUESTION TWO (15 MARKS)

- a. Describe form factor. (2mks)
 - i. What assurances does one have when using the same form factor? (3mks)
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- ii. Give two mother board form factors that exists (2 marks)
- b) A client has approached you with a computer problem, the problem itself is, when the PC is turned on there was an error code displayed which indicated that the computer could not find the operating system. Explain using relevant steps on how to solve this problem. (4 marks)
- c) Explain the term mother board. (2 marks)
 - ii. Explain TWO components found on the motherboard. (2 marks)

QUESTION THREE (15 MARKS)

- a) Elaborate the meaning of a chipset. (1 marks)
 - iii. A chipset is basically like a controller, list functions or parts with which it controls. (2 marks)
- b. List by numbering the microprocessor memory rank from the bit level to the highest level (4 marks)
- c. Differentiate between a buffer, bus and registers. (3 marks)
- d. Using a laptop while placed on the ground is not advised, explain why this is so. (2 marks)
- d) Describe the following terms (3 marks)
 - i. Optical Drive
 - ii. Flash Drives
 - iii. Drive interfaces

QUESTION FOUR (15 MARKS)

- a) With examples explain the different types of inside cables (cables found inside the computer) (3 marks)
- b) Discuss two input devices and two output devices as used in computers. (4 marks)
- c) Elaborate three basic units of electricity (6 marks)
- D) What is the role of BIOS in computer system configuration? (2 marks)

