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University of Ruhuna - Faculty of Technology Bachelor of Engineering Technology Honours Degree Level 3 (Semester I) Examination, June 2023

Academic year 2021/2022

Course Unit: ENT 3132 - Computer Hardware and Network Maintenance (Written)

Duration: 2 hours

• This paper contains four (04) questions on two (02) pages.

isk of a Chair R IP address in 255 255.04. How many beats can be

- · Answer all the questions.
- Each question carries equal marks.
- This is a closed book examination.

Q1. (extern ct)

- a) What is meant by form factor in RAMs? (02 marks)
- b) Name four (04) types of form factors of RAMs. (04 marks)
- c) What does SDRAM stands for and mention at least two (02) of its functions.

(04 marks)

- d) Name five (05) resources that should be included in Audio and Video Editing Workstations. (05 marks)
- e) Contrast the inter-related features that should be considered when selecting the following components.
 - i. Motherboard
 - ii. CPU
 - iii. Casing
 - iv. Memory

(10 marks)

Q2.

- a) Briefly evaluate the speciality of USB Type C connector compared to the other USB types. (02 marks)
- b) Where does type A and type D HDMI connectors are used? (04 marks)
- c) What is the difference between traces and busses on a motherboard? (04 marks)
- d) Briefly explain the Interrupt Request Line (IRQ) of a computer system. (05 marks)
- e) Appraise the roles of BIOS and CMOS in starting a computer system. (10 marks)

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a) Compare and contrast two (02) advantages and two (02) disadvantages of bus topology. (04 marks)

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- b) Differentiate a hub and a switch depending on the ability to broadcast and unicast.
- c) Briefly explain default gateway.

 (04 marks)
- d) Default subnet mask of a Class B IP address is 255.255.0.0. How many hosts can be created from this type of address, and explain the reason why you deducted two hosts? over a series of the series of
- e) Compare and contrast the IPV4 and IPV6 under five (05) points. (10 marks)

Q4.

- a) Explain in steps the recovery processes that could be done by the user when a program is not responding while the computer screen is frozen or stuck.
- b) Your office is going to call tenders on 50 desktop computers which can run heavy simulations. However, you are suspicious that when focussed more on the motherboard, companies tend to lower the unit price by putting in low quality power supplies. Explain how you investigate on the matter and notify the tender board.
- c) Evaluate the importance of the documentation process with regard to computer system faults. (10 marks)

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Briefly explain the Intervent Meducal Line (IRO) of a consular system. (0) marks)

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What is the difference between the series and legens on a modern out?

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c) Contrast the later-related features that should be considered when effecting the