

1. (a) (i) List **six** examples of computer *input* devices. (3 marks)

(ii) Annete a computer teacher noticed that a student in her class had a problem of low self esteem. Explain **three** causes of this problem. (6 marks)

(b) With the aid of a diagram, outline the parts of a computer *floppy disk*. (4 marks)

(c) Faith was advised to install a *network interface card* in her computer. Explain the importance of this hardware. (4 marks)

(d) The management of Mambo TTI would like to buy computers worth one million shillings. Outline the procedure they would follow when acquiring the computers. (3 marks)

2. (a) (i) List **four** examples of computer *network topologies*. (2 marks)

- (ii) Differentiate between *super computers* and *mainframe computers*, citing an area of application in each case. (6 marks)

- (b) Outline **four** examples of *ports* found in a computer system that are used in connecting the computer to peripheral devices. (4 marks)

- (c) Faida is a computer college and their students spend a lot of time in the computer laboratory using the computers. Explain health related problems that would be as result of each of the following:

- (i) bright light from the monitor; (2 marks)

- (ii) typing for many hours. (2 marks)

- (d) Arnold, a computer expert, has developed a computer game software and has decided to copyright it. Explain **two** benefits that he would enjoy from copyrighting his work. (4 marks)

3. (a) (i) Describe the term *ergonomics* as used in ICT. (2 marks)

(ii) Differentiate between *laser jet* printer and a *fax machine* as used in ICT. (4 marks)

(b) Explain **three** measures that an organization should put in place to avoid unauthorized access to data. (6 marks)

(c) Anna, a computer user is experiencing back and neck ache regularly as a result of using a computer for long hours. Identify **four** precautions that she should take to solve her problem. (4 marks)

(d) Amina, a counselor, has been invited to give a talk on techniques of conflict management to students in a school. Explain **two** techniques she is likely to mention. (4 marks)

4. (a) Explain **three** reasons that make *self awareness* an important life skill to an employee. (6 marks)

(b) Outline **four** examples of *computer crime* other than software piracy. (4 marks)

(c) Figure 1 shows a type of computer network. Use it to answer the questions that follow.

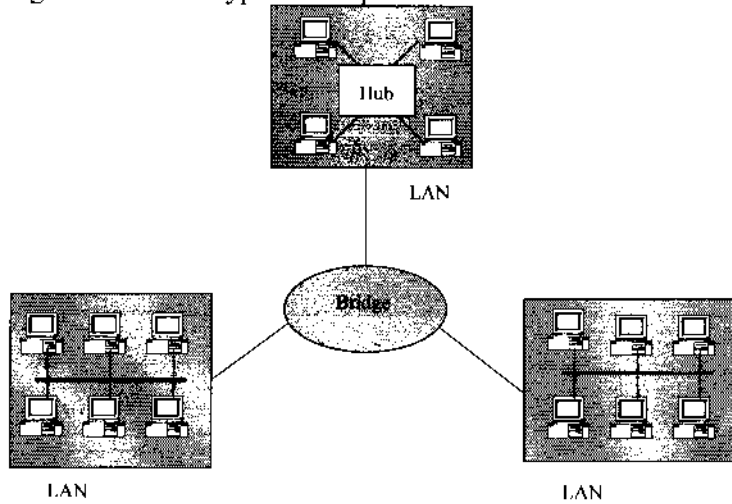


Figure 1

(i) Identify the type of network represent by the figure. (1 mark)

(ii) Outline an area of application for this type of network. (1 mark)

(iii) Outline **two** advantages of this type of network. (2 marks)

(d) Distinguish between each of the following computer devices:

(i) dot matrix and inkjet printer; (2 marks)

(ii) voice output and computer output on microfiche; (2 marks)

(iii) zip disk and compact disk. (2 marks)

5. (a) State **four** examples of *microcomputers*. (2 marks)

(b) Phoebe, a computer user was ill advised to use a *pirated software*. Explain **two** problems that she is likely to experience from using this kind of software. (4 marks)

(c) Charles installed an operating system in a computer. Explain **three** functions which would be performed by this software. (6 marks)

(d) (i) Explain **two** roles of a *computer technician* in a college. (4 marks)

(ii) With the aid of a diagram, describe a *peer-to-peer* computer network. (4 marks)

6. (a) (i) State **two** causes of work ~~conflicts~~ that may occur in the workplace. (2 marks)
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- (ii) Differentiate between *family conflicts* and *employee conflicts*. (4 marks)
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- (iii) The manager at Faida College intends to have all employees in the college trained in conflict management. Explain **one** reason to justify this move. (2 marks)
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- (b) Differentiate between *RAM* and *ROM* as used in computers. (4 marks)
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- (c) Paul is the Chief Executive Officer in a dairy company and throughout the week he normally has many commitments. Explain **two** reasons why time management is important to him when undertaking all his activities. (4 marks)
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- (d) The management at Bidii Company have an ICT policy. Outline **four** reasons that would justify the implementation of this document. (4 marks)
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7. (a) (i) Outline the importance of *software* in a computer. (2 marks)
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- (ii) Explain **two** considerations to be made for the successful installation of a computer software. (4 marks)

- (b) The management of ABC Bank intends to reach out to the society around their neighborhood. Explain **three** activities that the bank can engage into as a way of helping the society. (6 marks)

- (c) (i) Explain **one** function of a *computer motherboard*. (2 marks)

- (ii) Outline **two** functions of *uninterruptible power supply* as used in computers. (2 marks)

- (d) Moore intends to buy a computer for home use. Explain **two** uses that he would have for the computer. (4 marks)

8. (a) State **two** functions of each of the following computer devices:

- (i) ALU; (2 marks)

- (ii) VDU. (2 marks)

- (b) The management at BGT Company intends to acquire a sound card for the computers in the company. Outline **six** considerations they should make when acquiring the hardware.

(6 marks)

- (c) Technologies Ltd. is a company that deals in repairing computer systems and accessories. The unrepairable equipment are collected by a garbage collecting company together with other waste.

(i) State **two** effects that the equipment would have on the environment. (2 marks)

(ii) Outline **two** ways that they would use to properly dispose of the equipment. (2 marks)

- (d) Nicholson bought a computer software package on a DVD which he intends to use in his computer. Explain **three** benefits of installing the software on the computer hard disk instead of running the software directly from the DVD. (6 marks)
