

1. (a) (i) List **six** examples of computer *input* devices. (3 marks)
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- (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)
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- (b) With the aid of a diagram, outline the parts of a computer *floppy disk*. (4 marks)
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- (c) Faith was advised to install a *network interface card* in her computer. Explain the importance of this hardware. (4 marks)
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- (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)
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2. (a) (i) List **four** examples of computer *network topologies*. (2 marks)
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- (ii) Differentiate between *super computers* and *mainframe computers*, citing an area of application in each case. (6 marks)
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- (b) Outline **four** examples of *ports* found in a computer system that are used in connecting the computer to peripheral devices. (4 marks)
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- (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)
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- (ii) typing for many hours. (2 marks)
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- (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)
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3. (a) (i) Describe the term *ergonomics* as used in ICT. (2 marks)
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(ii) Differentiate between *laser jet printer* and a *fax machine* as used in ICT. (4 marks)

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

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(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)

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(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)

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

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

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

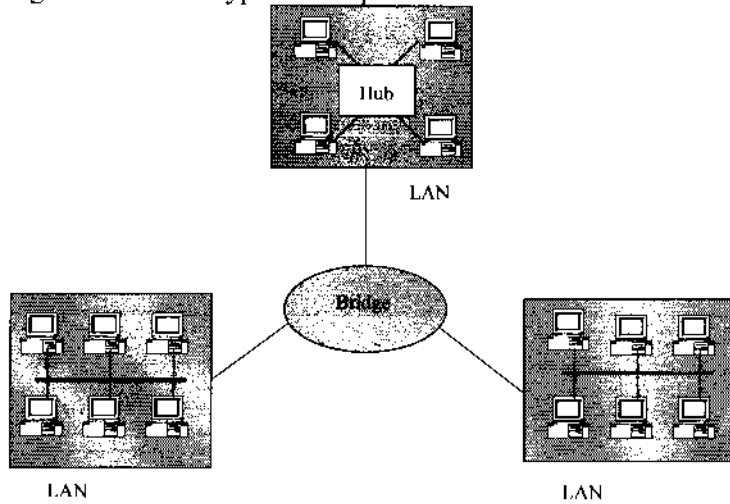


Figure 1

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

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

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

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

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

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

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(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)

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- (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)

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

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

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

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

- (i) ALU; (2 marks)

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- (ii) VDU. (2 marks)

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- (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)

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- (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)

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

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- (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)

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