BULOBA HIGH SCHOOL

END OF YEAR EXAMINATIONS 2023

S.3 ICT

TIME: 1 Hour 45 Minutes

Attempt all the questions in this paper

All answers should be written in the spaces provided

1. Unlike in the past, where it used to take a long time for information to be delivered to the desired person. It's very easy and quick today as it only takes a single click to have the information delivered. Mr. Kagunga is one of the research students who is not well acquainted with the new methods of information access and sharing and yet his supervisor does not receive hardcopy information.

(a). Explain the meaning of the following terms as used in the text above   (02 marks)

(i). Information access

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(ii). Information sharing

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(b). Apart from the use of Electronic mail Mention any other two most ideal electronic means that Mr. Kagungu can use to deliver his work to the supervisor   (02 marks)

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(c). In relation to E-mail communication, explain the following terms

   (i)   Carbon copy   (02 marks)

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   (ii)   Blind Carbon copy   (02 marks)

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(d). Describe the steps that one would take to create and send an electronic mail message   (02 marks)

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2. Harry has been using computers for most of his office work. He has enjoyed a great deal as this has simplified his work and also helped him accomplish all his tasks in a record time. Of recent, he has been complaining of backache.

(a). Mention any four other health problems Harry is most likely to face as a result of prolonged use of computers and ICTs   (02 marks)

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Suggest any two safety measures that Harry should take to avoid each of the health problem mentioned above.   (08 marks)

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3. As a result of growing numbers and development in technology, Buloba high school is seeking to transform all the students data into electronic forms. One of the application programs that have been identified for use in this exercise is a database management software. However, the person who is supposed to carry out this exercise is not well conversant with the application to use. You have been tasked to help the person to understand the program to use

(a).(i) Define the term database management software   (01 mark)

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(ii). Suggest any two database management programs he can use to carry out this exercise   (02 marks)

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(b). Explain the meaning of the following datatypes as used in database management   (03 marks)

(i). Short text

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(ii). Number

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(iii). Currency

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(c)The extract below is for one of the objects of a database management software, a sample of how the database should look like.

StudentID	Name	Sex	DOB	Class	Parents contact	Fees paid
SHS-01-001	Lukwago	M	25-08-2008	S1	0774522130	540000
SHS-01-002	Kakooza	M	04-12-2009	S1	0755486992	380000
SHS-01-008	Ouma	M	09-02-2010	S1	0705466883	285000
SHS-01-009	Adong	F	13-11-2010	S1	0744566582	900000
SHS-01-020	Mulondo	M	30-05-2008	S1	0788665544	280000
SHS-02-003	Mugisha	M	11-07-2004	S2	0752244863	800000

students

(i). Mention the database object indicated in the image above   (01 mark)

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(ii).Mention the field that would best suite the role of a primary key   (01 mark)

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(d). Which datatype would you assign the following fields   (02 marks)
Parents contact

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Class

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4. One of the greatest enemies of computers and ICTs in general is dust and debris. At the end of every term, the school computer laboratory is closed and at the beginning of the term, they have to invite a technician to service the computers as a result of the accumulation of dust on the computers. Your teacher has identified that problem and has asked the ICT learners to make a writeup to present to the administrators on how to address this problem

(a). Write down two ways in which dust can be controlled in the computer laboratory   (02 marks)

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(b). Mention any two tools that the school should put in place for use by learners during servicing so as to minimize costs of bringing in a technician   (02 marks)

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(c)Apart from dust, the other challenges in the lab are related to electricity and viruses. Suggest any three ways of protecting computers from;
(i). Electrical damage   (03 marks)

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(ii). Virus attacks   (03 marks)

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5. Internet as a resource has contributed a lot to the education sector. It is mostly used as a research tool as well as a tool for communication. However, the internet offers a lot more than the services mentioned above.

(a). Explain the meaning of the term internet   (01 mark)

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(b). Apart from research, mention any other three services offered by the internet   (03 marks)

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(c). In the case of Uganda, most telecom companies offer internet services to individual users as well as organisations, hence Internet Service Providers.

(i). As an internet user, mention any three factors that you would consider to choose a particular internet service provider. (03 marks)

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(ii)Mention any three factors that determine the speed of internet (03 marks)

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6. Mugalu was given an assignment to do. The assignment was as in the text below

The following learners did projects in Agriculture, ICT and Biology. The learners obtained the following scores: Damba got 80 in Agriculture, 40 in ICT and 75 in Biology. Kadaga got 90 in Agriculture, 47 in ICT and 30 in Biology. Tina got 93 in Agriculture, 55 in ICT, and 90 in Biology. Male got 65 in Agriculture, 44 in ICT and 80 in Biology. Akello got 60 in Agriculture, 35 in ICT and 48 in Biology. Opendi got 50 in Agriculture, 58 in ICT and 50 in Biology.

These where the results that that were compiled by the class teacher of S.3 and he wanted to transform them into electronic form so as to quickly grade the learner. He has approached you on how he can easily carry out the tasks.

(a).(i). Mention the application software that Mugalu can use to organise the work in the text above (01 mark)

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(ii). State any two examples of the application software mentioned above (02 marks)

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(b). Describe any three of the important features of the application program mentioned above that Mugalu can use to help him carry out the tasks easily (06 marks)

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(c). Mention any three advantages and three disadvantages of using the application software mentioned above compared to manual methods of organizing data   (06 marks)

Advantages

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Disadvantages

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