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Information Technology

Unit 1: Information Technology Systems

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| Thursday 8 June 2017 – Afternoon Time: 2 hours | Paper Reference 31760H |
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| You do not need any other materials. | Total Marks |
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Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and learner registration number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*

Information

- The total mark for this paper is 90.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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Answer ALL questions. Write your answers in the spaces provided.

1 Ohman runs a small business buying and selling sports memorabilia such as shirts, programmes and medals.

He runs his business from a small office with the help of two members of staff.

There are three computers in the office used for administration tasks and communication with buyers and sellers.

The business currently has a website that is used to advertise the memorabilia.

Ohman has decided that creating a page on a social networking site would give him additional advertising power with little initial cost.

(a) Explain **two** features provided by a social networking site that would benefit Ohman in advertising his business.

(4)

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(b) Explain **two** drawbacks that may arise from using a social networking site to advertise the business.

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2 Grangeholme College is based on a large campus with access to a local area network in all areas.

There are several dedicated computer rooms equipped with personal computers that have a wired connection to the network server.

Remote access to the network is provided via a virtual private network (VPN).

The network server is located in a dedicated server room with secure access.

The network is used by IT technicians, administrative staff, teaching staff and students.

(a) Entry to the server room is controlled by an ID card system.

The college would like to introduce a more secure access system.

It is considering installing a biometric fingerprint scanning system, rather than an ID card system.

Explain **two** advantages of introducing a biometric access system rather than an ID card system.

(4)

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(b) All users of the network are given user accounts.

User accounts are set up by the IT technicians.

Discuss how user accounts impact on different user groups of the system.

(8)

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(c) Harry is undertaking a digital photography course at the college and wants to complete and submit an assignment from home.

His assignment will include documents and photographs that are currently stored on his laptop, smartphone and digital camera.

He will submit his work using the college VPN. His tutor will download and assess the work.

Draw a diagram to show the integration of systems that could be used in this process.

The diagram should include:

- devices and systems that can be used
- devices to be connected and the connection type(s) used
- the flow of data through the system
- annotations indicating the information and data to be passed between the systems/devices.

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(Total for Question 2 = 22 marks)



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(b) Joseph must ensure that the interface he creates for the online survey will meet his needs and those of the participants.

The online survey will have multiple screens.

(i) The first screen will be used to collect personal information from the participants, including:

- Title
- First name
- Last name
- Postcode
- Telephone number
- Date of birth
- Gender.

Explain **three** different error reduction methods Joseph can use when collecting this information.

(6)

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(Total for Question 4 = 22 marks)

TOTAL FOR PAPER = 90 MARKS





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