

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Pearson BTEC
Level 3 Nationals
Extended Certificate,
Foundation Diploma,
Diploma, Extended
Diploma

Centre Number

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Learner Registration Number

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Thursday 6 June 2019

Morning (Time: 2 hours)

Paper Reference **31760H**

Information Technology

Unit 1: Information Technology Systems

You do not need any other materials.

Total Marks

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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Pearson

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

- 1** Edie is a student at Wigmore College. She is working with other students on a project to investigate the effects of plastics on the environment.

All students have internet access and use a wiki as their online method of collaboration.

- (a) Explain **two** benefits of using a wiki to collaborate with other students.

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(b) Explain **two** drawbacks of using a wiki to collaborate with other students.

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(c) Wigmore College should ensure that computer workstations are designed to minimise health risks.

Explain **two** factors the college should consider when designing computer workstations in order to minimise health risks.

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(e) Edie is considering purchasing a suite of office productivity applications for the laptop rather than purchasing individual applications.

Discuss the implications of this purchase.

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(Total for Question 1 = 24 marks)



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2 Richard is a football trainer. He has set up a company offering training and competitions for footballers of all abilities, aged 16 and over.

He would like to create a website that will:

- advertise training facilities
- advertise competitions
- collect personal details of players
- allow players to book training events and enter competitions.

The website must be accessible to all users.

(a) Describe **two** accessibility features that should be included in the website.

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QUESTION 2(B) BEGINS ON THE NEXT PAGE.



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(b) Personal details of players will be entered into an online data collection form.

Figure 1 shows part of a completed data collection form.

First name	Kelvin
Last name	Barbaros
Date of birth	17/07/2002
Telephone number	07700 900729
Address 1	88 Torrent Place
Post code	SR8 7GC
Email	kbarbaros@bgesal.org

Figure 1

It is important that the data collected is error free.

(i) Validation is used to minimise errors in the data collected.

Explain what is meant by the term 'validation'.

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(ii) Describe a validation rule that could be used for each of the following:

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Date of birth

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Email address

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(iii) Describe **one other** technique that could be used to minimise errors in data entry.

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3 ERS Trading sells sports goods.

It sells goods online and in high street stores.

The company offers a 'click-and-collect' service for online customers.

Customers using the 'click-and-collect' service nominate a store for collection.

On receipt of an online order the availability of stock in the warehouse is checked.

Items, that are not available, are ordered from suppliers.

Available items are despatched to the nominated store.

Items not collected by the customer within 14 days are returned to the warehouse.

Emails are sent to the customer when:

- the item is despatched to the nominated store
- the item is ready for collection in-store
- items have not been collected by the customer within 7 days.

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(a) Draw a flow chart to show the process for 'click-and-collect' ordering.

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(ii) Explain **two** implications of using a data model to solve this problem.

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(b) The moral and ethical factors of the use of IT systems has implications for the running of Frederick's Agency.

Discuss the implications for the agency and its staff of the moral and ethical factors of the use of information technology.

(10)

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(Total for Question 4 = 22 marks)

TOTAL FOR PAPER = 90 MARKS



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