

Please check the examination details below before entering your candidate information

Candidate surname					Other names				
Centre Number					Candidate Number				

Pearson Edexcel International GCSE (9–1)

Thursday 6 November 2025

Morning (Time: 1 hour 30 minutes)

Paper reference **4IT1/01**

Information and Communication Technology (ICT)

PAPER 1: Written Paper

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 candidate 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 100.
- 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.

Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

Ed uses ICT to socialise with friends.



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1 Ed buys a tablet computer.

(a) Which **one** of these is a type of wireless connectivity?

(1)

- ☐ **A** Bluetooth
- ☐ **B** Firewire
- ☐ **C** USB
- ☐ **D** WPA

(b) Give **two** benefits of using **wired** connectivity with a tablet computer.

(2)

1

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2

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(c) Give **two** benefits of using **wireless** connectivity with a tablet computer.

(2)

1

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2

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(d) Give **two** sensors used in a tablet computer.

(2)

1

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2

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- (e) Ed does not have a connection to the Internet.

Billie can share an Internet connection with Ed.

- (i) Draw a diagram to show how Billie's smartphone can be used to provide Ed's tablet computer with an internet connection.

Label your diagram to show each component and the connectivity it would use.

(3)

Sharing an internet connection can affect connectivity.

Billie's smartphone is sharing the connection with Ed's tablet computer.

- (ii) Explain **one** negative effect on the smartphone's connectivity.

(2)



(iii) Give the name of the permanent unique address given to the tablet computer by the manufacturer.

(1)

Ed's tablet has a clock speed of 2.4 GHz.

(f) Describe what is meant by a clock speed of 2.4 GHz.

(2)

(g) The tablet computer uses utility software.

(i) Give the purpose of utility software.

(1)

(ii) Which **one** of these describes software that prevents access to the source code?

(1)

- ☐ **A** Converged
- ☐ **B** Encrypted
- ☐ **C** Multifunctional
- ☐ **D** Proprietary

(h) Explain why magnetic storage is **not** used in tablet computers.

(2)

(Total for Question 1 = 19 marks)



2 Ed uses different types of computer.

(a) Which **one** of these is the best choice for carrying out complex tasks?

(1)

- ☐ **A** Client
- ☐ **B** Desktop
- ☐ **C** Mainframe
- ☐ **D** Microprocessor

(b) Give **two** examples of an embedded system.

(2)

1

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2

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(c) Explain why some computers do not need application software.

(2)

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(d) Which **one** of these is **not** a type of personal computer?

(1)

- ☐ **A** Laptop
- ☐ **B** Media player
- ☐ **C** Smartphone
- ☐ **D** Tablet



Ed studies architecture.

(e) Give **two** benefits to Ed of using a plotter as an output device.

(2)

1

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2

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(f) Explain why a router contains a table of IP addresses.

(2)

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A hard disk drive has 256 GiB of storage.

(g) Construct an expression to show how many bits are in 256 GiB.

(3)

Use this space for your working.

Expression:

.....



(h) Give **two** types of software **application**.

(2)

1

2

(i) Draw **one** straight line from **each** device type to the correct example.

(3)

Device type	Example
Input	CPU
Output	Data projector
Storage	Webcam
	Hard disk
	Random access memory

A tablet is an example of a converged device.

(j) Define the term 'convergence'.

(2)

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(k) Complete the diagram by ordering these storage capacities from smallest to largest:

gibibyte, kibibyte, mebibyte, tebibyte.

(3)

Smallest

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Largest

(l) Explain why operating systems use print spooling.

(2)

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Ed uses proprietary software.

(m) Explain **two** benefits to Ed of using proprietary software.

(4)

1

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2

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(Total for Question 2 = 29 marks)

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3 Ed uses the Internet to access shopping and entertainment services.

Malware is a risk to data.

(a) Give **two other** risks to data.

(2)

1

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2

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(b) Explain how **one** method of user authentication protects data.

(2)

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(c) Transactional data can help organisations.

(i) Give the name used for files that store data about user's browsing habits.

(1)

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(ii) Describe **one benefit** to **individuals** of the use of transactional data.

(2)

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(d) Explain **two positive** impacts on **entertainment organisations** of operating online.

(4)

1

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2

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(e) Explain **two** ways to use a search engine effectively.

(4)

1

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(Total for Question 3 = 15 marks)

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4 Ed works as a taxi driver.

Cars use an anti-lock braking system (ABS) to make braking more stable.

(a) Describe how the use of **one other** sensor can improve vehicle safety.

(2)

The location of Ed's taxi is monitored by his employer.

(b) Give the type of wireless communication used to monitor the taxi's movements.

(1)

(c) Describe **two** impacts the use of the Internet has on the way the taxi company runs its business.

(4)

1

2



The taxi company collects data about its employees.

- (d) Explain why data protection laws give employees more control over the personal information held about them by their employers.

(2)

The Internet has impacted the way the taxi company employs drivers.

- (e) Explain **one** impact of the Internet on employment.

(2)



(f) Discuss the ethical impacts of monitoring the communication of individuals.

(8)

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(Total for Question 4 = 19 marks)



5 Ed uses online communities.

(a) Give **two** features of video sharing sites.

(2)

1

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2

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(b) Give **two** risks of belonging to an online community.

(2)

1

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2

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(c) Explain **one** way an acceptable use policy keeps online communities safe.

(2)

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Ed reads an inappropriate post on an online community.

(d) Explain **one** action Ed should take after reading the post.

(2)

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Ed makes sure his own posts are fit for purpose. One way he does this is by checking his sources for accuracy.

(e) Describe **one other** way he can evaluate the fitness for purpose of his posts.

(2)



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(f) Discuss the **positive** impacts of ICT on the environment.

In your answer you should consider the use of:

- sensors
- communication technology
- the cloud (hosted applications and storage).

(8)



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(Total for Question 5 = 18 marks)

TOTAL FOR PAPER = 100 MARKS



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