

# Friday 12 January 2024 – Afternoon

# Level 1/Level 2 Cambridge National in IT R050/01 IT in the digital world 332223 33223 33223 332223 33223 33223 332223 33

### **INSTRUCTIONS**

First name(s)

Last name

Centre number

- Use black ink.
- Write your answer to each question in the space provided. You can use extra paper if you need to, but you must clearly show your candidate number, the centre number and the question numbers.

Candidate number

Answer all the questions.

### **INFORMATION**

- The total mark for this paper is 70.
- The marks for each question are shown in brackets [ ].
- This document has 12 pages.

### **ADVICE**

· Read each question carefully before you start your answer.



## Section A

<u>-</u>			
Wh	ich of these is	s <b>not</b> an operating system?	
Tick	k ( <b>√</b> ) <b>one</b> box	only.	
Α	Android		
В	Linux		
С	Office		
D	Ubuntu		
	luman Compu	uter Interface (HCI) is designed to manipulate numeric data.  Iform would be used?	
Wh	luman Compu nich digital plat ntify <b>one</b> user	tform would be used?	
Wh	luman Compu nich digital plat ntify <b>one</b> user	interaction method other than touch that could be used on a HCI.  s not a numeric data type?	
Wh	luman Compution digital plate natify one user nich of these is	interaction method other than touch that could be used on a HCI.  s not a numeric data type?	
Wh Idea	luman Compution digital plate the digital plate the second of the second in the second in the second in the second of the second in the second of the second in the secon	interaction method other than touch that could be used on a HCI.  s not a numeric data type?	
Wh Idea Wh Tick	luman Compution digital plate in the digital plate in the series in the	interaction method other than touch that could be used on a HCI.  s not a numeric data type?	
Wh Idei Wh Tick <b>A</b> <b>B</b>	luman Compution digital plate the digital plate	interaction method other than touch that could be used on a HCI.  s not a numeric data type?	

7	Identify <b>one</b> data verification tool.		[1]
8	Identify <b>two</b> primary data collection me	ethods.	
	1		
	2		[2]
9	Draw a line to link the type of malware	to the correct description.	
	You will only use <b>two</b> types of malware	e to complete this task.	
	Type of Malware	Description	
	Spyware	A standalone program that replicates itself	
	Trojan Horse		
	Worm	Collects user log-in details	
			[2]
10	Data theft can occur when data is <b>in t</b> i	ransit	
10			
	Identify <b>one</b> other state when data the		
			[1]
11	What does RFID stand for?		
			[1]
12	Identify the legislation that relates to the	ne protection of an image.	
			[1]

### **Section B**

An animal charity is organising a discovery trail competition which will last for three weeks. Painted statues of dogs will be placed in different locations of a town for people to find.

To take part people have to register using a HCl on a mobile app and pay an entry charge. Each person who registers is allocated an entry number.

13	Data is entered to register on the mobile app using a HCI.
(a)	What is meant by the term 'data'?
	[2]
(b)	Data validation has been used on the HCI for the mobile app.
	Describe how the data type check and input mask can be used to reduce data entry errors on the registration screen.
	Data type check
	Input mask
	[4]

14 The charity has stored details about each entrant on a network drive. A backup of this data is

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(a)	Identify <b>one</b> hardware resource that should be considered when designing the registration screen.
15	The mobile app has a HCI. Part of the HCI is the registration screen for the competition.
	Encryption
	2FA
	Explain how two-factor authentication (2FA) and encryption could be used by the animal charity to keep the data stored on the USB flash drive secure.
(c)	Logical prevention measures will be used to increase the protection of the entrants' data stored on the USB flash drive.
(b)	One threat that could occur if the USB flash drive is not protected is identity theft.  What is identity theft?
	[2
	2
(a)	Identify <b>two</b> characteristics of a USB flash drive that make it suitable to store the backup.  1
	stored on a USB flash drive.

(b)	The animal charity could use Desktop Publishing (DTP) software to create the visualisation diagram of the registration screen.	
	Explain <b>two</b> advantages to the animal charity of using DTP software to create the visualisation diagram.	
	1	
	2	
		[4]
(c)	Explain how using the HCl on a mobile app will impact on the design of the HCl.	
		[2]

(d)	Ent Pay	rants must input their name, address and contact details when using the registration screen. ment details are accessed by clicking a button on the registration screen.
	Cre	eate a visualisation diagram to plan the content for the registration screen.
	Maı	rks will be awarded for:
	•	content; layout.

16	The HCl registration screen that is used by entrants to input their name, address and contact details must be tested.	
(a)	Identify <b>two</b> examples of valid test data that the animal charity could use.	
	1	
	2	
		[2]
(b)	Describe how invalid (erroneous) test data could be used to test the HCI registration screen.	
		[2]

17	As entrants find the statue found		nother part of the mobile app HCI to enter details about
(a)	Identify two digit	al devices that could be	used by the entrants to enter the statue details.
	1		
	2		[2]
(b)	The entrants car	use touch to interact w	rith the HCl on the mobile app.
	Describe <b>one</b> dis	sadvantage to the entra	nts of using touch to interact with the HCI.
			[2]
		ne statue details is show	
	Entry number	DT124	
	When found	02/09/2025	
	Statue ID	25	
	Location	42 The High Street	
(c)		,	es that are used when entering the details about the

statue. Justify your choice.

	Data Type	Justification
Entry number		
When found		
Statue ID		

- 18 The discovery trail has finished and the statues will be sold at an event to raise more money for the animal charity. A digital presentation will be created which shows:
  - details about each statue, including an image;
  - the results of the discovery trail;
  - money raised for the charity.

Discuss the suitability of the animal charity using a digital presentation to communicate this information.

In your answer you **must** consider:

<ul> <li>the purpose of the digital presentation;</li> <li>the advantages and disadvantages to the animal charity of using the digital presentation.</li> </ul>
[9]

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**END OF QUESTION PAPER** 

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