

CAMBRIDGE TECHNICALS LEVEL 2 (2016)

Examiners' report

IT

05882, 05883, 05884

Unit 1 Summer 2022 series

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Introduction

Our examiners' reports are produced to offer constructive feedback on candidates' performance in the examinations. They provide useful guidance for future candidates.

The reports will include a general commentary on candidates' performance, identify technical aspects examined in the questions and highlight good performance and where performance could be improved. The reports will also explain aspects which caused difficulty and why the difficulties arose, whether through a lack of knowledge, poor examination technique, or any other identifiable and explainable reason.

Where overall performance on a question/question part was considered good, with no particular areas to highlight, these questions have not been included in the report.

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Unit 1 series overview

General comments on the paper

Entries for the June 2022 series were the highest ever. The mean was lower than in the last two June series (in 2018 and 2019), but quite close to the June 2018 mean.

Assessment for learning



Centres are always advised to focus not only on the knowledge requirements across the five learning outcomes for this unit but also make sure candidates are familiar with the different assessment styles used in this summative assessment – i.e., linking boxes, true/false, diagram-related questions and select 'three'. Learning Outcome 4 had particularly strong responses this series.

Learning outcome 1: Questions 1, 2, 5, 6, 10, 13, 15, 23 and 28

This LO covers knowledge of hardware components and performance was generally good. LO1 is one of the weightier LOs within the unit and as a result centres should spend more time with their candidate's developing knowledge around types of computer systems, networks, connectivity methods, topologies, network protocols, computer components, devices, and fault diagnosis. Candidates performed well in most LO1 questions and but struggled in a couple, such as naming the network topology diagram provided and identifying examples of control cards.

Learning outcome 2: Questions 3, 11, 14, 16, 17, 20, 30, 33 and 36

Performance on this LO was adequate, and this is the heaviest weighted LO within the unit. Candidates found three questions more challenging, one of which asked them to provide a function of defragmentation. The others asked to provide a reason to use a compiler and to identify Tizen as an operating system which was designed for Samsung mobile phones.

Learning outcome 3: Questions 9, 12, 18, 19, 24, 26, 31 and 34

The focus of LO3 builds on LO1 and LO2 and requires candidates to demonstrate knowledge of how to install and upgrade hardware and software. Performance was the strongest for this learning outcome, with candidates performing particularly well on the questions asking to identify safety equipment from a provided picture and also identifying a risk assessment form from a list of documentation.

Learning outcome 4: Questions 4, 8, 22, 25, 27 and 32

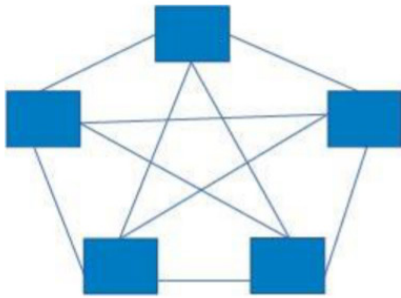
Performance on this LO was again very good, with candidates demonstrating a strong knowledge of social media and security. Particularly strong performances were seen in questions about the features of a fitness tracker and the disadvantages to a business which uses social media. Candidates did not perform poorly in any LO4 questions.

Learning outcome 5: Questions 7, 21, 29, 35 and 37

This LO carries the lowest weighting in the unit and performance of candidates was good. The LO is holistic in nature and draws together the learning from the unit to reflect on the practical uses of IT within business. The lowest outcome was for a question asking for candidates to order the phases of project planning. The best two outcomes were for a question asking to identify a security threat when storing data online, and also for a question asking candidates to match descriptions to video conferencing, screen sharing and teleconferencing.

Appendix 1 Questions

Question 1



Which type of network topology is shown in the diagram above?

- A
- B
- C
- D

[1]

Question 2

Which **one** of the following is an output device?

- A
- B
- C
- D

[1]

Question 3

Drag and drop each software package from the options below to the box that describes it.

Database Desktop Publishing Spreadsheet

Can hold a vast amount of data that can be searched with complex queries

Used to create pamphlets, flyers and brochures for marketing purposes

Particularly useful for running 'what if' scenarios in data forecasting

[1]

Question 4

Which **one** of the following can be measured using a fitness tracker?

A Hearing

B Heart rate

C Height

D Sight

[1]

Question 5

Read the statement below and select if it is **true** or **false**.

All operating systems have the same beep configurations.

True

False

[1]

Question 6

Which **one** of the following is **not** an example of wearable technologies?

- A
- B
- C
- D

[1]

Question 7

A business stores their data online.

Which **one** of the following is a security threat when storing data online?

- A
- B
- C
- D

[1]

Question 8

Which **one** of the following is a disadvantage to a business of using social media platforms?

A

Cost

B

Loss of control of data

C

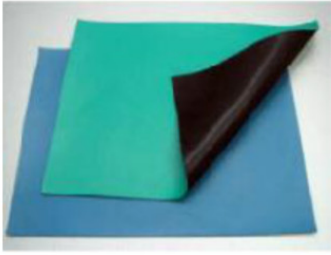
Posts can be shared widely

D

Reaching a world-wide audience

[1]

Question 9



Which **one** piece of safety equipment is shown in the image above?

A Anti-static mats

B Anti-static wrist bands

C Foot supports

D Screen filters

[1]

Question 10

A car has a computer system that can manage the fuel economy of the vehicle.

What is the name of this type of device?

- A
- B
- C
- D

[1]

Question 11

Which **one** of the following is a function of defragmentation?

- A
- B
- C
- D

[1]

Question 12

Read the statement below and select if it is **true** or **false**.

It is important to confirm compatibility before carrying out an upgrade.

[1]

Question 13

Which **one** of the following memory types is available in small amounts and speeds up the computer system?

A

B

C

D

[1]

Question 14

Which **one** of these is **not** a feature of encryption?

A It needs a key to decode the content

B It removes images

C It scrambles the content

D The content won't make sense if intercepted

[1]

Question 15

Which **one** of the following is an input device?

A Dongle

B Graphics tablet

C Plotter

D Speaker

[1]

Question 16

Read the statement below and select if it is **true** or **false**.

A hard drive must be formatted before it can be used to store files.

True

False

[1]

Question 17

Which of the following would you use to increase security when using your PC? (Select **three**).

A Anti-virus software

B Defragmentation

C Disk drive clean-up

D Encryption

E Firewall

[1]

Question 18

Which **one** of the following will **not** be included in a test plan?

- A
- B
- C
- D

[1]

Question 19

Department:

Date:

Review date:

Name:

Signature:

Activity	Potential risk	Level of risk (High, Medium, Low)	Actions to be taken to minimise risk	Person Responsible

Organisations have to complete documentation to satisfy health and safety responsibilities.

Which **one** of the following documents is shown above?

A

B

C

D

[1]

Question 20

Which **one** of the following is **not** a function of an operating system?

- A
- B
- C
- D

[1]

Question 21

Drag and drop each collaboration method from the options below to the box that best describes it.

Video conferencing

Screen sharing

Teleconference

An audio and visual connection between two or more people using computer networks to transmit data

An audio and visual connection using telephone lines to link computers

Allowing other devices to view the contents of your screen

[1]

Question 22

A business has been hacked and your personal details have been leaked.

Which **one** of the following might happen as a result?

- A
- B
- C
- D

[1]

Question 23

Drag and drop each task from the options below to the box that shows the protocol for that task.

Used to automate the process of configuring devices on IP networks

Used when viewing a website in a web browser

Used to transmit a file from a client to a server

DHCP

FTP

HTTP

[1]

Question 24

Technicians are based in a room with multiple servers and printers.

Which **one** of the following is a responsibility of their employer?

- A
- B
- C
- D

[1]

Question 25

Read the statement below and select if it is **true** or **false**.

Virtual reality overlays digital information on the real world.

-
-

[1]

Question 26

Which **one** of the following will **not** be included in a company's health and safety policy?

- A
- B
- C
- D

[1]

Question 27

On which **one** of the following sites would you be most likely to share a picture of a new pet?

- A
- B
- C
- D

[1]

Question 28

Which of the following are examples of control cards? (Select **three**).

A A network interface card

B A network interference card

C A network internet card

D A sound card

E A video card

[1]

Question 29

A company is using social media to promote customer engagement.

Which **one** of the following defines customer engagement?

A A commitment to spend a large sum of money

B A partnership with a marketing company

C The emotional connection between a customer and a brand

D When the customer signs an initial contract

[1]

Question 30

Which of the following are features of compression? (Select **three**).

A It may increase the colour depth

B It may increase the number of pixels

C It may reduce the resolution

D It may remove repeated data

E It may use run-length encoding

[1]

Question 31

It is important to record changes made to systems.

Which **one** of the following changes would **not** need to be logged?

A Installation of new hardware

B Patching

C Upgrading software

D Using an external device with the system

[1]

Question 32

Which of the following are uses of social media sites? (Select **three**).

- A Communication
- B File-sharing
- C Marketing
- D Payment
- E Physical contact

[1]

Question 33

A computer programmer uses a compiler when developing a new software app by writing program code.

Which **one** of the following is a reason to use a compiler?

- A To convert the program code each time it is run
- B To convert the program code to a low-level language in one operation
- C To convert the program code to a low-level language line by line
- D To stop the program code running when an error is found

[1]

Question 34

Which of the following are reasons to install a computer upgrade? (Select **three**).

- A To de-bug the software that runs on the computer
- B To improve time management
- C To increase the capacity of the available storage
- D To increase the performance of the computer
- E To meet a program's system requirements

[1]

Question 35

Which **one** of the following describes a Gantt chart?

- A A visual way of measuring the proposed timings of a project
- B Gives a visual representation of what the end product will look like
- C Identifies resources needed for a project
- D Provides details of costings in a project

[1]

Question 36

Which **one** of the following operating systems has been developed specifically for Samsung mobile phones?

- A
- B
- C
- D

[1]

Question 37

You are the project manager for a major computer upgrade in your company.

Drag and drop the phases of project planning from the options below into the correct order 1 to 4.

Initiation Execution Planning Evaluation

1 2 3 4

[1]

Question 38

Drag and drop each description from the options below to the correct social media site.

A business and employment service

A microblogging site used for sharing text, photos, links, videos and audios

A social news platform that allows users to discuss and vote on content that other users have submitted

LinkedIn

Reddit

Tumblr

[1]

Question 39

Artificial intelligence is used in medical diagnostics.

Which **one** of the following features is essential for it to do this effectively?

- A
- B
- C
- D

[1]

Question 40

A company use CRM software.

Which **one** of the following does CRM stand for?

- A
- B
- C
- D

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