

T Level Technical Qualification in Digital Support Services (603/6901/2)

Route Core and Pathway (Paper A)

Paper number: **P001639** Time allowed: **2 hours**

Assessment date: Wednesday 14 June 2023 Time: 1:00pm – 3:00pm

Student instructions

- Use black or blue ink.
- Fill in the boxes at the bottom of this page.
- Answer all questions.
- Read each question carefully.
- You must write your responses in the spaces provided. There may be more space than you need.
- You may do rough work in this answer book. Cross through any work you do not wish to be marked.
- If you use a supplementary answer booklet, you must add your student name, student number and provider number to the front cover of the booklet. Insert your supplementary answer booklet inside this question paper at the end of your exam.

Student information

- The marks available for each question are shown in brackets. This is to help you decide how long to spend on each question.
- The maximum mark for this paper is 106 (including 6 for the quality of written communication and use of specialist terminology).
- In questions **17** and **28**, you will be assessed on the quality of your written communication (QWC) and use of specialist terminology.
- You may use a calculator.

Do not turn over until the invigilator tells you to do so.

Please complete / check your details below		
Student Name:		
Provider Name:		
Student Number:	Provider Number:	







Section	A: Business context and culture		
	This section is worth 39 marks, plus 3 marks for QWC and use of specialist terminology. Answer all questions in the spaces provided.		
1	Give one business environment that sells products direct to the customer. [1 mark]		
2	Identify one mitigation technique that can reduce the impact of unsafe or inappropriate use of technology. [1 mark]		
3	George is giving a talk on the use of digital technology to a company that currently relies on face-to-face communication.		
	Explain one way that digital technology could impact upon this company's culture.		
	[2 marks]		



A company is launching a new set of easy-to-use smart devices. Feedback from a focus group found that 'products are really easy to use', but many 'fear there will be a loss of privacy'.
The company would like to produce an information leaflet that can be sent to those interested in the product. This would inform them about the following aspects of digital security:
digital footprintsurveillance.
Describe each of these aspects of digital security. [2 marks]
Explain how one of these aspects of digital security would help address the focus
group's concern around loss of privacy. [2 marks]
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A cloud-based service provider is launching a new product. A previous was not as successful as the provider had hoped. Feedback from staff that they were not sure what was expected of them and were not prov targets to aim for.	indicated
Identify two components of SMARTER objectives.	
	[2 marks
Explain how one of the identified components of SMARTER objectives	can
improve the provider's chances of a successful launch.	
	[2 marks
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A training provider is moving from classroom-based to online teaching. In preparation, they are developing a virtual classroom platform.

The managing director is holding a meeting with the development team. The focus of the meeting is to understand the risks and implications that the new platform has for the business.

The meeting will focus on the following risks:

- security
- audience exclusion
- insufficient business resilience.

Explain how **one** of these risks could affect the new online classroom platform.

[2 marks]

Please turn over for the next question

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more environmentally aware, while also reducing the costs of their operations.

The organisation offers remote, 24/7 digital support to people with little IT experience. Moving to more eco-friendly working means that the organisation with the

The organisation offers remote, 24/7 digital support to people with little IT experience. Moving to more eco-friendly working means that the organisation will need to change their digital infrastructure to include more power-efficient components.

An organisation is planning its long-term growth strategy and wants to become

Explain why **each** of the following factors should be considered when planning the new growth strategy:

sustainability

7

reduction in carbon footprint.

·	[4 marks]



8	Tanveer is a specialist fashion retailer who is planning to open a new online store. He has hired a new web design apprentice who will create and manage the online store. Tanveer has warned the apprentice that there are risks to online businesses that need to be considered.
	Discuss how the risk of non-compliance could have an impact on Tanveer's
	business. [3 marks]
	Please turn over for the next question



9	A software development company is developing a new social networking app that aims to connect users doing specific leisure activities across the world. The organisation has a reputation for developing products that are accessible to all.
	The project manager would like to ensure that the team understand the importance of considering customer and end user needs when creating a successful app.
	Justify why it is important for the software development company to consider the profile of their customers and end users when developing their product. [6 marks]



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10	BuildSkills UK is a charity that provides free digital skills training to adults who are not in education, employment or training (NEET). The managing director wants to know about factors that may influence the business environment in order to create a successful 10-year business plan.
	Discuss key factors that could influence the business environment of BuildSkills UK and the opportunities offered by each.
	Your response must include reasoned judgements and conclusions. [12 marks, plus 3 marks for QWC]



10

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Please turn over for the next section



	ction is worth 39 marks, plus 3 marks for QWC and use of specialist terminology. * all questions in the spaces provided.
11	Identify one adverse effect on an individual when digital inclusion principles are not applied. [1 mark]
2	State two types of network. [2 marks]



13	Natalia runs an IT support company and has recently seen productivity reduce amongst staff.
	Staff have told Natalia that they could work faster, but the systems they use are so slow that this is not possible.
	Natalia would like to provide a more resilient digital environment to ensure system performance is always effective.
(a)	Identify two methods of creating a resilient digital environment that Natalia could use.
	[2 marks]
(b)	Explain how Natalia could use one of the identified methods to create a resilient digital environment.
	[2 marks]
	Please turn over for the next question



AppMyLife is a mobile app developer specialising in apps that help users organise their work-life balance. Over recent years, AppMyLife has suffered from reduced sales and a shrinking user base among people from diverse backgrounds.
5

The board of directors is looking at the business benefits of increased diversity and inclusion in the workforce.

Explain how increased diversity and inclusion within the workforce could support AppMyLife to introduce products that are:

- innovative
- inclusive.

•	inclusive.	[4 marks]
	2	
	70	



- Muhammed is presenting at a conference for software development and design companies. Muhammed's presentation will focus on addressing the demographic imbalance in the digital sector. Muhammed will present on the following approaches to addressing this imbalance:
 - increasing cultural awareness of different types of bias
 - application of digital inclusion principles
 - government initiatives
 - inclusive recruitment.

demographic imbalance in the digital sector.	iuiess
demograpine imbalance in the digital decicer.	[4 marks]
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Please turn over for the next question



6	A local college wants to improve the accessibility of its learning materials. To help achieve this, the principal has asked that the college provides all students with access to word processing, spreadsheet and database software. The principal would like to use cloud services to achieve this but is not sure about the service that is required.
	Discuss how software as a service (SaaS) could improve the accessibility of the college's learning materials.
	[3 marks]
7	A conference centre is hosting a conference to promote collaborative working between large businesses in the UK. It is expected that there will be over 200 attendees and several businesses will exhibit their own products. Feedback from last year's event was that the centre's network was restrictive and did not allow attendees to collaborate effectively.
)	Identify one routing protocol. [1 mark]
	Explain how the routing protocol identified could be used by the conference centre.
	[2 marks]



18	Marco has purchased a new laptop for work projects. The laptop has no operating system (OS) installed. Marco is a graphic designer and uses popular software packages including word processing, image editing and video creation. Projects are often shared with clients, so compatibility of software is a key requirement.
	Justify which OS is the most suitable for Marco to install on his laptop. [3 marks]
19	A large technology company is developing a new product. They have asked a community group with a range of needs to tell them more about their requirements.
	The company is aware of the importance of considering digital inclusion in the design and development of digital products.
	Analyse why the principles of digital inclusion are important when developing this new product for this group.
	[3 marks]



20	VirtualNet UK Ltd is an organisation that offers hosted applications to clients. Their clients are mainly small companies that want to offer digital solutions but who do not have the knowledge or ability to implement them.
	A recent outage at the data centre caused systems to be down for VirtualNet UK Ltd and their clients. This led to several complaints from clients about lost revenue and security concerns.
	The network manager has requested an increased budget to improve the resilience of the organisation's digital environment.
	Discuss the benefits of improved resilience in the digital environment to VirtualNet UK Ltd and the impact these improvements could have on clients.
	Your response must include reasoned judgements and conclusions. [12 marks, plus 3 marks for QWC]



18



	ection is worth 22 marks. r all questions in the spaces provided.
21	Give two factors that need to be considered when assessing the reliability and validity of a source. [2 marks]
22	Roma is researching language development for a university paper. The topic is new to Roma, and she would like to use digital sources of knowledge for her research. Explain how Roma could ensure that any research she takes from forums is
	accurate, reliable and valid. [2 marks]





24	Mia is developing a new digital platform for a local educational charity that will launch at the start of the new school year. The project is early in the planning stage and Mia is looking to understand the aims and objectives.
(a)	State two considerations in the identification of project aims and objectives. [2 marks]
(b)	Explain how Mia can use one of these considerations to understand the aims and objectives of the project. [2 marks]



25	Chloe would like to use emerging technologies to automate her home, improve her fitness and manage her daily routine.	
(a)	Identify two examples of emerging technologies that Chloe could use. [2 marks]]
		-
(b)	Explain how Chloe could use one of the identified emerging technologies to meet her needs.	-
	[2 marks]	
	C)_X	
26	A careers adviser within a school is planning a lecture for students to discuss the importance of personal and professional development in the digital sector.	
	Discuss how achieving accreditation to specific professional disciplines could have an impact on a student's career. [3 marks]]
		-
		-
		-
		-



27	A local college is designing a new distance learning solution to allow students to learn from home. The project has a tight deadline and several requirements, and the project manager is worried that the team may lose focus on delivering a minimum working solution.
	Assess how MoSCoW could be used to prioritise the requirements for this project.
	[3 marks]





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To be completed by the examiner			ner
Question	Mark	Question	Mark
1		15	
2		16	
3		17a	
4a		17b	
4b		18	
5a		19	
5b		20	
6		21	
7		22	
8		23a	
9		23b	
10		24a	
11		24b	
12		25a	
13a		25b	
13b		26	
14		27	
		TOTAL MARK	

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