

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

Route Core and Pathway

Paper A

Paper number: P00XXXXX

Specimen 2020

Morning/Afternoon

Time allowed: 2 hours

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.

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 **8** and **16**, you will be assessed on your quality of written communication (QWC) and use of specialist terminology.
- You may use a calculator.

Please complete the details below clearly and in BLOCK CAPITALS.

Student name		
Provider name		
-	Descriden	
Student number	Provider number	

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

Section A: Business context and culture

BARCODE - TQ/EC/CKU/PAPERA



NCFE

	tion is worth 41 marks, plus 3 marks for QWC and use of specialist terminology.
nswer	all questions in the spaces provided.
I	Unsafe or inappropriate use of digital technology can affect a person's health. Describe one action that could reduce this risk.
	[2 marks]
!	Businesses have a range of different internal stakeholders.
	Name three different internal stakeholders and briefly describe how each stakeholder you have named could influence the way a digital business operates.
	[3 marks]

A company has recently moved to working in 3 locations, each of which has limited space. Staff must regularly travel between them for meetings. Their IT equipment is old and needs to be updated.
The company wants to reduce operating costs and increase productivity.
They are considering whether remote working would support this.
Describe four possible impacts on the company of moving to remote working. [4 marks]
A local florist is developing a website to start selling their products online instead of from their high street shop. They have a target to increase their profits by 50%. Discuss four ways in which a digital approach could help them to meet their target.
[4 marks]

5	A digital marketing agency is completing a major update of its customer content management system. Describe both of the following processes:
	roll back planning documenting.
	Explain why each process could be important to the business when they integrate new systems.
	[4 marks]
6	A business is considering changes to their digital systems to reduce their carbon footprint, become more eco-friendly and reduce operational costs. These changes require them to install a range of power efficient components into their digital infrastructure. These new components will have to operate effectively with the existing components, to avoid disruption to the services used by staff.
	a) Describe three preparation and planning tasks that would facilitate these changes.
	b) Describe three operational tasks that would facilitate these changes. [6 marks]

Please turn over for the next question.

7	A UK organisation is looking for new markets outside the UK to increase their sales. The organisation specialises in high-end technological devices such as the latest smartphones and tablets.
	Discuss three economic factors which could impact the business entering markets outside of the UK and how they could be mitigated.
	[6 marks]

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8	A local community sports club has set up a website for customers to book sessions and make payments. Customers must book through an unsecured area of the website. To make a booking, customers must enter their personal details. This information is then stored in a spreadsheet that is accessible by all sports club staff. There is no option for customers to make bookings in person. Discuss the risks of the booking process and evaluate the possible impacts of these risks on the sports club and their customers.
	[12 marks, plus 3 for QWC]

Please turn over for the next section.

Secti	on B: Divers	sity, inclusion and digital environments
This s	section is wor	th 37 marks, plus 3 marks for QWC and use of specialist terminology.
Answ	er all questio	ns in the spaces provided.
9		ns a marketing consultancy business from home. She regularly uses a range of pols to facilitate online banking, video conferencing and online collaborative
	Jane ha	s a poor internet connection because of where she lives.
	Explain busines	two ways poor internet connection could have an adverse effect on Jane's
	Daoineo	[2 marks]
10 7	The table belov	w shows a list of descriptions.
5	Select the num • router	ber of the correct description for each of the below:
	• switch	
		Description
	1	A device that broadcasts network packets to all connected devices
	2	A device that sends network packets directly to intended device using

	Description
1	A device that broadcasts network packets to all connected devices
2	A device that sends network packets directly to intended device using MAC address
3	A device that interconnects different networks and subnets
4	A device that provides network access to wireless clients

[2 marks]

	[3 ma
A local shop has donated two PCs and a printer to a local library. The library to use this equipment to create a network. The network will support those in community that do not have access to the internet or computers at home.	
Aims of the project include: help with job search and job applicationseducational activities	
 ensuring the online safety of community members using the compute 	rs.
The library wants to keep the computers safe from cyber attacks and misuse	
a) Explain two ways in which the library could use hardware components to the network between the PCs and printer and allow internet access and print secure way.	
b) Explain two ways in which the library could use software to achieve the air project.	ms of t
	[4 m

Explain two wa	ays in which cloud computing could benefit Harmeet's busines	s.
·		
		[4 ma
b) A small, sing	e functionality of the routing protocols RIP and OSPF. gle-site business is planning to open new sites. The business in ich routing protocol to use.	is
Evaluate wheth	her RIP or OSPF would be the most effective protocol.	[4 ma
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Identify three ways that a digital business can benefit from using a diverger recruitment process and evaluate their possible impacts.	erse and inclusive
	[6 marks

16	You are a digital support specialist working within the IT department of a local college. Recently the domain controller server went offline, causing a major network outage.
	The college requires that the network must be available 24/7 and allow for staff and students to access services such as email from home and mobile devices. Additionally, users must be able to access the full range of software that the college has available and be able to create, open, edit and save documents, along with uploading documents to the college network.
	Analyse the college's requirements and make justified recommendations to the board of directors with respect to their digital infrastructure.
	[12 marks, plus 3 marks for QWC]
	

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Please turn over for the next section.

	You are troubleshooting a problem.			
	State one advantage and one disadvantage of using user forums as a source of			
	information to help you. [2 marks]			
	Describe two ways in which ineffective project planning can lead to rising costs. [2 marks			
)	A bank has received a number of complaints from customers about the time it takes to get help online. The bank thinks this is mainly due to a staff shortage and is considering using artificial intelligence (AI) to solve the problem.			
	using artificial intelligence (AI) to solve the problem. Define AI and describe the purpose of AI. Explain two ways AI could be used to improve customer experience with the bank.			
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Please turn over for the next question.

de wa	ou are a project manager. You have been asked to develop a new app for mobile evices that will allow users to search for events and pay for tickets. The project owne ants the app to be ready for launch in 8 weeks. He wants customers to be able to us app to book tickets for a nationwide series of events.
	plain how each of the following factors may impact on planning the development for s project:
•	people and skills
•	deadlines.
	[4 mar
with invo	small company has started a complex project for the first time. They will need to liais the a wide range of stakeholders and complete a number of different tasks, which will volve a large number of their staff. member of staff has suggested that the business use a critical path analysis tool to anage the project.
Εv	valuate to what extent you think this approach to the project will be effective. [6 mar

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This is the end of Paper A.

Document information

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Change History Record

Version	Description of change	Approval	Date of Issue
v1.0	Published.		2020
v1.1	NCFE rebrand.		September 2021