



# QUALIFI

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## QUALIFI ASSESSMENT DOCUMENT

Qualification	Qualifi Level 5 Diploma in Information Technology
Qualification No (RQF)	603/4791/0
Unit Name	Technopreneurship
Unit Reference	5IT01
No of Credits	20 Credits

## Introduction

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- Centre Specification
  - Can be found at <https://qualifi.net/qualifi-level-5-diploma-in-information-technology/>
- Qualifi Quality Assurance Standards
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# Assignment Question

## Task 1 – 700 words

### Assess the nature of technological entrepreneurship

**1.1:** Give an example of a trending techno entrepreneur and describe the techno entrepreneurial process and in that context. Evaluate its characteristics and opportunities in the verticals of Organizational, External and Individual factors (1.1, 1.2)

**1.2** Complete the table below by providing minimum 2 examples under each (1.3)

	Features	Applications
Value Creation		
The Lean Startup		
Customer Discovery and Validation		
The Business Model Canvas		
The Entrepreneurial Method		

### Assessment Criteria

1.1 Evaluate the characteristics of techno entrepreneurs and the techno entrepreneurial process

1.2 Evaluate trends and opportunities within technological entrepreneurship

1.3 Analyse the features and application of the five pillars of technological entrepreneurship

## **Task 2 – 700 words**

### **Establish a new techno business**

**2.1:** Explain how techno entrepreneurs opened up the market for new products and services (2.1)

**2.2:** What are the actions & measures that can be taken to ensure intellectual property? (2.2)

**2.3:** Suggest a trending technological business and explain how you can structure it to optimize assets, investment and ownership. Give a business and marketing plan defining SMART objectives optimizing current resources (2.3,2.4, 2.5)

### **Assessment Criteria**

2.1 Evaluate the potential for new products or services and new potential markets for them

2.2 Take action to protect intellectual property that is appropriate to the nature of the business

2.3 Structure the business in a way that optimizes assets, investment and ownership

2.4 Prepare a business and marketing for a new techno business that sets SMART objectives and optimizes available resources

2.5 Market the business in accordance with the marketing plan

## **Task 3 – 600 words**

### **Evaluate the rationale for businesses' creation, delivery and capture of value**

**3.1:** Business Model Canvas is a strategic management and lean startup template for developing new or documenting existing business models. How can you use this for the example you provided in the question 2.3 and state what are the strengths and weaknesses (3.1)

**3.2:** Assuming due to business failure you want to exit the business. State which exit method you will take and justify your answer comparing other exit methods (3.2)

## **Assessment Criteria**

3.1 Evaluate the uses, strengths and weaknesses against the Business Model Canvas

3.2 Evaluate the suitability of different methods of exit from the business

	Distinguished	Excellent	Good	Proficient	Basic	Marginal	Unacceptable
Criteria	80+	70	60	50	40	30	0
<b>Content (alignment with assessment criteria)</b>	Extensive evaluation and synthesis of ideas; includes substantial original thinking	Comprehensive critical evaluation and synthesis of ideas; includes coherent original thinking	Adequate evaluation and synthesis of key ideas beyond basic descriptions; includes original thinking	Describes main ideas with evidence of evaluation; includes some original thinking	Describes some of the main ideas but omits some concepts; limited evidence of evaluation; confused original thinking	Largely incomplete description of main issues; misses key concepts; no original thinking	Inadequate information or containing information not relevant to the topic
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Qualification	Qualifi Level 5 Diploma in Information Technology
Qualification No (RQF)	603/4791/0
Unit Name	Network Security
Unit Reference	5IT02
No of Credits	20 Credits

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# Assignment Question

## Task 1 – 1000 words

### Understand computer network security

**1.1:** Describe 6 common network security threats along with their nature, how will they affect the network and computer (1.1, 1.2)

**1.2:** Select one of the above threats and elaborate how Artificial Intelligence has already been used in security software to detect and defend against it (1.3)

### Assessment Criteria

1.1 Analyse the factors that affect network and computer security

1.2 Identify common security issues in a networked environment

1.3 Analyse the role that artificial intelligence (AI) could have in defending networks



## **Task 2 – 1000 words**

### **Understand methods of maintaining computer security**

Assuming you have been assigned to ensure the security of your computer network in your organization and answer the following

**2.1:** Define the nature of your network and justify the security tool that you will select to implement (2.3)

**2.2:** Define the types of users in your organization and justify which authentication you would provide for each user role describing their strengths and weaknesses (2.1)

**2.3:** What are the common attacks that your network can encounter and what are the best practices that you can introduce to each role to minimize risks from them (2.2, 2.4)

**2.4:** Compare and contrast Host- vs. Network-Based Intrusion Detection Systems (2.5)

### **Assessment Criteria**

2.1 Analyse the strengths and weaknesses of different methods of authentication

2.2 Analyse the nature of different types of attack and malicious codes

2.3 Select the security tool that is appropriate to the nature of the security issue

2.4 Evaluate practices that prevent common attacks from intruders (networks, remote access, email, web security, wireless and instant messaging)

2.5 Analyse the differences between network and host intrusion detection systems

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Qualification No (RQF)	603/4791/0
Unit Name	C#.NET Programming
Unit Reference	5IT03
No of Credits	20 Credits

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# Assignment Question

## Task 1 – 1000 words

### Understand the use of ASP.NET

**1.1:** What's the role of the components below? Describe using examples. (1.1)

1. Directives
2. Code Declaration Blocks
3. ASP.NET Controls
4. Code Render Blocks
5. Server-Side Comments
6. Server-Side Include Directives
7. Literal Text and HTML Tags

**1.2** Compare ASP.NET with another web development technology in below vertices (1.2)

1. Coding time
2. Security
3. Framework
4. Monitoring
5. Complexity
6. Performance
7. Control over HTML.
8. SEO

**1.3** Describe the uses of following validation controls (1.3)

1. RequiredFieldValidator
2. RangeValidator
3. CompareValidator
4. RegularExpressionValidator
5. CustomValidator
6. ValidationSummary

**Assessment Criteria**

1.1 Analyse the components / structure of ASP.NET

1.2 Evaluate the advantages and disadvantages of using ASP.NET compared with other web development models

1.3 Analyse the advantages of using validators

## Task 2 – 1000 words

### Design web applications using ASP.NET and ADO.NET

**2.1:** You are required to develop a web based solution for your organization to manage employee information. Using ASP.NET and ADO.NET develop the following functionalities.

- a. Attractive web interface where each department can customize their theme accordingly (2.1)
- b. Assuming logins are already stored in the database, a login page for admins to login in each department (2.3)
- c. Enter employee ID and view employee information within the same page (2.2,2.3)
- d. Update and save employee information
- e. Mobile friendly (2.1)

### Assessment Criteria

2.1 Use styles, themes and master pages to create an attractive and easily navigable web applications

2.2 Display dynamic data from a relational database by using ADO.NET and data binding through different languages including C#

2.3 Create a web page that uses client side navigation, client side browser redirect, cross page posting and server side transfer that meets the brief

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Unit Name	System Administration
Unit Reference	5IT04
No of Credits	20 Credits

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# Assignment Question

## Task 1 – 1000 words

### Understand system administration

**1.1:** As a system administrator what are your responsibilities (1.1, 1.2)

**1.2:** What is LDAP and Active Directory? Describe the evolution of Directory Access Protocols (1.3)

**1.3:** Assume you are required to manage your university server. Describe the nature of it and explain how you would manage its applications. Justify your policy on taking backups and explain when would you take backups and when would you take snapshots (1.4, 1.6, 1.7)

**1.4:** When multiple nodes are connected to the server explain how you would handle local and group policies in either Linux or Windows (1.5)

### Assessment Criteria

1.1 Analyse the role of the system administrator

1.2 Analyse the elements within system administration

1.3 Analyse the history of the active directory and Lightweight Directory Access Protocol (LDAP)

1.4 Analyse the difference between snapshots and backups

1.5 Analyse the differences between local and group policies on Windows and Linux

1.6 Analyse the role and requirements of backup and restore policies

1.7 Analyse the requirements of managing applications

## Task 2 – 1000 words

### Perform user management and file system management

Assume you are required to migrate the server from Windows environment to Linux Environment.

**2.1:** Write a shell script in windows to check current running services and to view list of current users. Write a shell script in Linux to ping the list of connected nodes. How would you take snapshots in both servers using shell scripts? (2.1, 2.4)

**2.2:** Describe how you would create 2groups in linux (Primary group, Secondary group) and add users to them. Explain how you would install a printer and make it shared within a selected group (2.2, 2.3)

**2.3:** How you would analyze the performance of Linux and describe how you would carry out below tasks to optimize current settings (2.5)

- Updating default Kernel parameter settings
- Tuning up TCP
- Tuning file descriptor limits

### Assessment Criteria

2.1 Write shell scripts that enable administration tasks to be performed on Linux and Windows systems: Get Help; Check Services; List Users and ping a list of servers

2.2 Set up and configure users and groups to the agreed standard

2.3 Install and configure file and printer sharing to agreed standards

2.4 Write shell scripts to perform snapshots on Linux and Windows servers to agreed standards

2.5 Tune performance through the application of a range of utilities and tools to agreed standards

	Distinguished	Excellent	Good	Proficient	Basic	Marginal	Unacceptable
Criteria	80+	70	60	50	40	30	0
			Adequate				
<b>Content (alignment with assessment criteria)</b>	Extensive evaluation and synthesis of ideas; includes substantial original thinking	Comprehensive critical evaluation and synthesis of ideas; includes coherent original thinking	Adequate evaluation and synthesis of key ideas beyond basic descriptions; includes original thinking	Describes main ideas with evidence of evaluation; includes some original thinking	Describes some of the main ideas but omits some concepts; limited evidence of evaluation; confused original thinking	Largely incomplete description of main issues; misses key concepts; no original thinking	Inadequate information or containing information not relevant to the topic
<b>Application of Theory and Literature</b>	In-depth, detailed and relevant application of theory; expertly integrates literature to support ideas and concept	Clear and relevant application of theory; fully integrates literature to support ideas and concepts	Appropriate application of theory; integrates literature to support ideas and concepts	Adequate application of theory; uses literature to support ideas and concepts	Limited application of theory; refers to literature but may not use it consistently	Confused application of theory; does not use literature for support	Little or no evidence of application of theory and relevant literature
<b>Knowledge and Understanding</b>	Extensive depth of understanding and exploration beyond key principles and concepts	Comprehensive knowledge and depth of understanding key principles and concepts	Sound understanding of principles and concepts	Basic Knowledge and understanding of key concepts and principles	Limited and superficial knowledge and understanding of key concepts and principles	Confused or inadequate knowledge and understanding of key concepts and principles	Little or no evidence of knowledge or understanding of key concepts and principles
<b>Presentation and Writing Skills</b>	Logical, coherent and polished presentation exceeding expectations at this level; free from errors in mechanics and syntax	Logical, coherent presentation demonstrating mastery; free from errors in mechanics and syntax	Logical structure to presentation; makes few errors in mechanics and syntax which do not prohibit meaning	Orderly presentation; minor errors in mechanics and syntax	Somewhat weak presentation; errors in mechanics and syntax may interfere with meaning	Confused presentation; errors in mechanics and syntax often interfere with meaning	Illogical presentation lacking cohesion; contains significant errors that interfere with meaning
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**Instructor's Comments**



## Directions:

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Criteria	Score
Content	50
Application of Theory and Literature	40
Knowledge and Understanding	50
Presentation/Writing Skills	40
Referencing	40
<b>Total Score</b>	<b>220/5 = 44, Basic</b>



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# QUALIFI

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## QUALIFI ASSESSMENT DOCUMENT

Qualification	Qualifi Level 5 Diploma in Information Technology
Qualification No (RQF)	603/4791/0
Unit Name	Network Routing and Switching
Unit Reference	5IT05
No of Credits	20 Credits

## Introduction

Prior to attempting this coursework assignment, learners must familiarise themselves with the following policies:

- Centre Specification
  - Can be found at <https://qualifi.net/qualifi-level-5-diploma-in-information-technology/>
- Qualifi Quality Assurance Standards
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## Plagiarism and Collusion

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## **Marking and grades**

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# Assignment Question

## Task 1 – 1000 words

### Understand switching

**1.1:** Describe what is packet switching and circuit switching and differentiate their functionality under following aspects (1.2, 1.4)

- Forward transmission
- Bandwidth wastage and reservation
- Physical path
- Data packet transmission

**1.2:** Describe the following features in managed switches (1.3)

- Quality of Service (QoS)
- Simple Network Management Protocol
- Virtual Local Area Networks
- Redundancy
- Port Mirroring

**1.3:** What are the factors you need to consider before you select a switch for an office network? (1.1)

### Assessment Criteria

- 1.1 Evaluate the considerations to be taken into account in the purchase of a switch
- 1.2 Analyse switching techniques and protocols
- 1.3 Analyse the features in managed switches
- 1.4 Analyse the differences between circuit switching and packet switching

## **Task 2 – 1000 words**

### **Perform routing**

**2.1:** Describe the uses, advantages and disadvantages of static routing (2.1)

**2.2:** What is inter VLAN routing and describe 3 ways it can be configured (2.1)

**2.3:** Describe Static routing and Dynamic routing along with their advantages and disadvantages. What are Distance vector (RIP, IGRP) and Link state (OSPF, IS-IS) protocols (2.2, 2.3)

**2.4:** Draw simple illustration examples for Single area multi area OSPF (Open Shortest Path First) protocols. Describe how you enable OSPF instance, configure OSPF area, configure OSPF network in single area OSPF. Describe how you create an area and attach OSPF networks to the area in multi area OSPF (2.4, 2.5, 2.6)

**2.5:** Describe how you configure EIGRP (Enhanced Interior Gateway Routing) for IPv4 (2.7)

### **Assessment Criteria**

2.1 Evaluate the considerations to be taken into account in making static and inter-VLAN routing decisions

2.2 Analyse routing techniques and protocols

2.3 Evaluate the considerations to be taken into account in dynamic routing

2.4 Evaluate the considerations to be taken into account in a single and multi-area OSPF

2.5 Set up and configure a single area OSPF to agreed standards

2.6 Configure a multi area OSPF to agreed standards

2.7 Configure a multi area EIGRP to agreed standards



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## QUALIFI ASSESSMENT DOCUMENT

Qualification	Qualifi Level 5 Diploma in Information Technology
Qualification No (RQF)	603/4791/0
Unit Name	Network Design and Administration
Unit Reference	5IT06
No of Credits	20 Credits

## Introduction

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# Assignment Question

## Task 1 – 600 words

### Understand network design

**1.1:** What is the importance of having a computer network and what are the benefits for users? (1.1)

**1.2:** Describe the functionalities of this each layer in Hierarchical internetworking model (1.2)

- Access layer
- Distribution layer
- Core layer

**1.3:** What is link aggregation and its benefits? Explain how Link Aggregation Control Protocol (LACP) works (1.3)

### Assessment Criteria

1.1 Analyse the requirements of users

1.2 Analyse the different layers in hierarchical network design

1.3 Analyse competing protocols in link aggregation

## **Task 2 – 700 words**

### **Configure a local area network and a VLAN**

**2.1** How to set up a VLAN in IEEE 802.1Q standard? Describe the role of the Router and Switch in VLAN (2.1)

**2.2:** Differentiate Basic NAT vs One-to-many NAT. Describe following methods of translation (2.3)

- one-to-one NAT
- (Address)-restricted-cone NAT
- Port-restricted cone NAT
- Symmetric NAT

**2.3:** Select an Operating System and give step by step guide to enable and to configure Remote Desktop for Administration (2.4)

**2.4:** You are required to set up a LAN to your workplace. Describe how you would cope with scalability? (2.2)

### **Assessment Criteria**

2.1 Set up and configure a VLAN to agreed standards

2.2 Analyse the requirements of connectivity and scaling

2.3 Analyse the types and methods used in Network Address Translation (NAT)

2.4 Configure remote connections on Linux and Windows systems to agreed standards

## **Task 3 – 700 words**

### **Administer a network**

**3.1** As a network administrator what are your main duties? Describe tools that you can use to automate or effectively carry out these tasks. What are the common troubleshooting tasks and explain how you would resolve them (3.4, 3.5, 3.1)

**3.2** Explain Spanning Tree Protocol (STP) with examples (3.3)

**3.3** What is “link aggregation” and how do you configure it to benefit your network (3.2)

### **Assessment Criteria**

3.1 Diagnose and resolve faults in the system

3.2 Configure a network backbone using link aggregation that demonstrates a speed increase

3.3 Analyse the history of the spanning tree protocol and its role in network redundancy

3.4 Analyse the role of a network administrator

3.5 Evaluate the technologies and applications available for network administration

	<b>Distinguished</b>	<b>Excellent</b>	<b>Good</b>	<b>Proficient</b>	<b>Basic</b>	<b>Marginal</b>	<b>Unacceptable</b>
<b>Criteria</b>	80+	70	60	50	40	30	0
			<b>Adequate</b>				
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## QUALIFI ASSESSMENT DOCUMENT

Qualification	Qualifi Level 5 Diploma in Information Technology
Qualification No (RQF)	603/4791/0
Unit Name	Content Management Systems
Unit Reference	5IT07
No of Credits	20 Credits



## Introduction

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# Assignment Question

## Task 1 – 1000 words

### Understand content management systems (CMS)

**1.1:** Compare the benefits of using a Content Management System (CMS) with traditional HTML website explaining the key functions in a CMS (1.1, 1.2)

**1.2:** Assuming you are requested to develop a website for your institute where you publish institute information along with a notice board . Which CMS do you recommend to use for this and justify why you choose it. Define how you would implement the notice board explaining content modelling and aggregation (1.3, 1.4, 1.5)

### Assessment Criteria

- 1.1 Define the purpose of using CMS for digital content development and publication management
- 1.2 Evaluate the functional roles in a CMS
- 1.3 Evaluate the considerations to be taken into account in the acquisition of a CMS
- 1.4 Evaluate the considerations to be taken into account in content modelling
- 1.5 Evaluate the considerations to be taken into account in content aggregation

## **Task 2 – 1000 words**

### **Operate a CMS**

Your institute current website is running on Wordpress and you are asked to revamp it. As improvements you are requested to the functionality where lecturers can publish course materials and students can login and download

- 2.1:** What are the available CMS and justify which CMS you will recommend for the above revamp (2.1)
- 2.2:** Explain the methodology that you will use to transfer the current content to your new CMS (2.5)
- 2.3:** How you would structure the new CMS to publish new content and accommodate mentioned new feature (2.2, 2.3, 2.4)
- 2.4:** Explain how you transfer the CMS along with its database to the web server and publish to the current web address (2.6)

### **Assessment Criteria**

- 2.1 Select and use a range of CMS tools to create digital content that meet the brief
- 2.2 Model content in accordance with the brief
- 2.3 Edit content in accordance with the brief
- 2.4 Aggregate content in accordance with the brief
- 2.5 Migrate content across different CMS systems in accordance with the brief
- 2.6 Publish content to a server side application and a client side application in accordance with the brief

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<b>Referencing</b>	Advanced use of in-text citation and references	Mastery of in-text citation and referencing	Appropriate use of in-text citation and referencing	Adequate use of in-text citation and referencing	Limited use of in-text citation and referencing	Inadequate use of citation and referencing	Little or no evidence of appropriate referencing or use of source

**Instructor's Comments**

## Directions:

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Example:

	Distinguished	Excellent	Good	Proficient	Basic	Marginal	Unacceptable
Range	80-100	70-79	60-69	50-59	40-49	35-39	0-34

Criteria	Score
Content	50
Application of Theory and Literature	40
Knowledge and Understanding	50
Presentation/Writing Skills	40
Referencing	40
<b>Total Score</b>	<b>220/5 = 44, Basic</b>





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# QUALIFI

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## QUALIFI ASSESSMENT DOCUMENT

Qualification	Qualifi Level 5 Diploma in Information Technology
Qualification No (RQF)	603/4791/0
Unit Name	Web Design
Unit Reference	5IT08
No of Credits	20 Credits

## Introduction

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- Centre Specification
  - Can be found at <https://qualifi.net/qualifi-level-5-diploma-in-information-technology/>
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# Assignment Question

## Task 1 – 1000 words

### Understand web design

- 1.1: Differentiate client side and server side web programming with their uses and technologies used (1.1)
- 1.2: Describe the evolution of DOM and state the limitations of 'Level 1' (1.2)
- 1.3: What advantages and disadvantages of using XML and JSON and state the key differences between XML and JSON (1.3)
- 1.4: What are common HTML events and what can Event Handlers in Javascript can do? (1.4)
- 1.5: Describe when you should choose a web application over a desktop application? (1.5)
- 1.6: What are common types of multimedia that you can use in web applications and state the impact on the performance with using them and suggest how you can minimize these performance issues? (1.6)

### Assessment Criteria

- 1.1 Differentiate between client-side and server side programming
- 1.2 Analyse the history of Document Object Modelling (DOM)
- 1.3 Analyse the similarities and differences between XML and JSON
- 1.4 Evaluate the extent to which the benefits of using events outweigh the problems
- 1.5 Analyse the advantages and disadvantages of and differences between desktop and web applications
- 1.6 Analyse the problems associated with multimedia objects in browsers and recommend practicable solutions

## Task 2 – 1000 words

### Create dynamic web pages

2.1: You are required to create a web application to facilitate the following.

- A login page that prompt for username and password that are stored in a database (2.4)
- A dynamic CSS which can be customized for several color schemes (2.6)
- For users that are not registered, a registration page which gatherers and validate the following information: (2.2, 2.3)
  - Unique username
  - Unique email in the valid format
  - Mandatory First name and Last name
- Once logged in, user must be able to enter his/her ID number and retrieve personal information using JSON or XML which are stored separately (2.1)
- User will have various menu items to access different pages and they will have the option to hide/show menu items as per their preference (2.5)

### Assessment Criteria

2.1 Create a data model through the application of XML and JSON that meets the brief

2.2 Use JS to validate a form so that it meets the brief

2.3 Use JS to validate user input so that it meets the brief

2.4 Use JS to process user input at client side so that it meets the brief

2.5 Use JS to create a dynamic navigation menu that meets the brief

2.6 Use Dreamweaver to create a dynamic web page that uses Cascading Style Sheets (CSS) that meets the brief



	Distinguished	Excellent	Good	Proficient	Basic	Marginal	Unacceptable
Criteria	80+	70	60	50	40	30	0
			Adequate				
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## QUALIFI ASSESSMENT DOCUMENT

Qualification	Qualifi Level 5 Diploma in Information Technology
Qualification No (RQF)	603/4791/0
Unit Name	Business to Business (B2B) E-commerce
Unit Reference	5IT09
No of Credits	20 Credits

## Introduction

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# Assignment Question

## Task 1 – 400 words

### Understand Electronic Data Interchange (EDI)

1.1: How did EDI start? State 2 EDI Standards (1.1)

1.2: Explain how EDI facilitates in E-commerce (1.2)

1.3: What are types of VAN (Value added networks) and state benefits of VAN over Peer to Peer (1.3)

### Assessment Criteria

1.1 Analyse the history and standards of EDI

1.2 Analyse the role of EDI within a corporate environment

1.3 Assess the implications of peer-to-peer versus value added networks

## **Task 2 – 400 words**

### **Understand Electronic Funds Transfer (EFT)**

**2.1:** What are common types of payment methods? Describe their use in online banking, instant payments and contactless payments (2.1, 2.2)

**2.2:** Describe how crypto currency can create implications in (2.3)

- Contractual issues
- Insuring issues
- Fraud
- Theft

### **Assessment Criteria**

2.1 Analyse the differences between online banking, instant payment and contactless payment systems

2.2 Analyse the suitability of different payment systems for different types of transaction

2.3 Assess the implications of crypto-currencies from economic and political perspectives

## **Task 3 – 400 words**

### **Understand online transaction processing (OLTP)**

**3.1:** What is the key difference in OLTP and OLAP in terms of their usage? What can be the challenges in use of OLTP? (3.1, 3.2, 3.4)

**3.2:** What are pros and cons using centralized vs decentralized payments? (3.3)

### **Assessment Criteria**

3.1 Analyse the requirements, uses and challenges of online transaction processing

3.2 Analyse the differences between OLTP and online analytical processing (OLAP)

3.3 Evaluate the advantages and disadvantages of centralized versus decentralized systems

3.4 Analyse the requirements of an OLTP system design

## **Task 4 – 400 words**

### **Understand inventory management systems**

**4.1:** You are required to record inventory of your institute. Institute contains 2 buildings with minimal IT infrastructure. Justify if you would use an Enterprise Resource Planning (ERP) or cloud inventory management software. Explain why you cannot use a Supply Chain Management system. (4.1, 4.2, 4.3)

**4.2:** Elaborate the challenges you will have to manage when you are implementing the above (4.4)

### **Assessment Criteria**

4.1 Analyse the scope of operations of inventory management software

4.2 Analyse the advantages and disadvantages of Enterprise Resource Planning (ERP) and cloud inventory management software

4.3 Analyse the interface between an inventory management system and the supply chain

4.4 Analyse the challenges of inventory management system design

## **Task 5 – 400 words**

### **Understand supply chain management**

**5.1:** What are the 6 types of era in the development of supply chain management (5.1)

**5.2:** Describe the below process in supply chain management in short (5.2)

- Strategic planning
- Demand planning
- Supply planning
- Procurement
- Manufacturing
- Warehousing
- Order fulfillment
- Transportation

**5.3:** Describe how you would apply just-in-time (JIT), material requirements planning (MRP) and total quality management (TQM) managing to the supply chain for globally integrated products (5.3)

### **Assessment Criteria**

5.1 Analyse the historical development of supply chain management

5.2 Evaluate processes within the supply chain

5.3 Analyse the uses of just-in-time (JIT), material requirements planning (MRP) and total quality management (TQM) within supply chain management

	<b>Distinguished</b>	<b>Excellent</b>	<b>Good</b>	<b>Proficient</b>	<b>Basic</b>	<b>Marginal</b>	<b>Unacceptable</b>
<b>Criteria</b>	80+	70	60	50	40	30	0
			<b>Adequate</b>				
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## QUALIFI ASSESSMENT DOCUMENT

Qualification	Qualifi Level 5 Diploma in Information Technology
Qualification No (RQF)	603/4791/0
Unit Name	Information Technology and IT Ethics
Unit Reference	5IT10
No of Credits	20 Credits

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## **Assignment Question**

### **Task 1 – 500 words**

#### **Understand the concepts and techniques used in mobile e-commerce and ticketing**

**1.1:** Online food ordering has been popular in the recent years. Explain how location based services is used in the given content (1.2)

**1.2:** Design a user friendly mobile ticketing application that uses ticket verification in the context of online food ordering (1.1, 1.3)

#### **Assessment Criteria**

1.1 Create designs for mobile screens that demonstrate good practice in the use of fonts and graphics

1.2 Analyse the use of location-based services in mobile e-commerce

1.3 Create a mobile ticketing application that uses unique ticket verification

## **Task 2 – 500 words**

### **Understand the psychology of marketing**

**2.1:** In the context of online food delivering, elaborate buyers purchasing decision process stating each step (2.1, 2.2, 2.3)

**2.2:** What is eye-tracking and explain how it is used in the ecommerce (2.4)

### **Assessment Criteria**

2.1 Analyse the factors affecting a buyer's purchasing decisions

2.2 Analyse the purchasing decision process

2.3 Analyse the impact of internal and external influences on the buying decision

2.4 Analyse the use of eye-tracking technologies in commerce

## **Task 3 – 500 words**

### **Understand the use of artificial intelligence (AI) in image recognition**

**3.1:** What is image detection, recognition and classification and explain how it can improve ecommerce? (3.1, 3.3, 3.4)

**3.2:** Describe how Augmented Reality and Virtual reality can be used in e-commerce by giving examples (3.2)

### **Assessment Criteria**

3.1 Analyse the use of image classification in ecommerce

3.2 Analyse the benefits of augmented reality versus virtual reality in e-commerce

3.3 Assess the implications of using image recognition as a tool to find inappropriate content

3.4 Analyse the way in which image recognition can help eliminate counterfeit products



## **Task 4 – 500 words**

### **Understand social commerce**

**4.1:** Describe social commerce. Explain the types of social commerce and its elements (4.1, 4.3)

**4.2** What are Micro-Influencers and why are they so effective? (4.2)

**4.3:** Distinguish Soldsie, eBay, Groupon, The Fancy and Kickstarter platforms and elaborate how Pinterest can be used to improve in-app purchases (4.2, 4.4)

### **Assessment Criteria**

4.1 Evaluate the elements and features of social commerce

4.2 Assess the impact of Pinterest, micro influencers and in-app purchasing in social commerce

4.3 Analyse the features of different categories of social commerce

4.4 Analyse the distinctions between Soldsie, eBay, Groupon, The Fancy and Kickstarter social commerce applications

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2. Provide specific feedback to a student about each of the criteria scores he/she earned by writing comments and suggestions for improvement in the last row titled "Instructor's comments."
3. To arrive at a mark, total the boxes and divide by 5 to arrive at final mark.

Example:

	Distinguished	Excellent	Good	Proficient	Basic	Marginal	Unacceptable
Range	80-100	70-79	60-69	50-59	40-49	35-39	0-34

Criteria	Score
Content	50
Application of Theory and Literature	40
Knowledge and Understanding	50
Presentation/Writing Skills	40
Referencing	40
<b>Total Score</b>	<b>220/5 = 44, Basic</b>



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