

## DICT LEVEL II

INTERNET SKILLS MONDAY: 30 August 2021. Time Allowed: 3 hours. Answer ALL questions. Marks allocated to each question are shown at the end of the question. **QUESTION ONE** The internet being network based is greatly defined "by emerging trends" in computing. Highlight three trends that affect/will affect internet in future. (6 marks) (b) (i) List two popular web browsers. (2 marks) Describe three considerations/checks that you may need to put in place to ensure you avoid content (ii) incompatibility with web browsers. (6 marks) (c) Explain the following terms as used in internet technologies: (i) ARPANET. (2 marks) (ii) Usenet workgroups. (2 marks) (iii) Malware. (2 marks) (Total: 20 marks) **QUESTION TWO** (a) State four client side scripting languages. (4 marks) (b) Tom has developed a website for his business and wishes to have the website hosted online. Explain three types of web hosting that he could consider. (6 marks) Summarise five communication services offered by the internet. (c) (5 marks) Outline five main features of Web 3:0. (d) (5 marks) (Total: 20 marks) **QUESTION THREE** (a) A uniform resource locator (URL) is a specific type of uniform resource identifier (URI). Required: (i) Distinguish between "URL" and "URI". (2 marks) (ii) Explain four parts that forms a URL. (4 marks) (b) Describe three controls an organisation may implement to mitigate against system penetration. (6 marks) (c) Explain the following terms: (i) Bandwidth. (2 marks)

(ii)

(iii)

(iv)

Bookmark.

Virtual community.

Cookie.

TD22 Page 1 Out of 2

(Total: 20 marks)

(2 marks)

(2 marks)

(2 marks)

QUES (a)	TION F Explai	OUR in the following terms as used in e-commerce:		
	(i)	Price transparency.	(1 mark)	
	(ii)	Disintermediation.	(1 mark)	
	(iii)	Consumer-to-consumer commerce (C2C).	(1 mark)	
	(iv)	Behavioural targeting.	(1 mark)	
(b)	Assess	Assess five benefits of cloud computing. (5 mar		
(c)	(i)	Citing a relevant example, explain the term network architecture.	(2 marks)	
	(ii)	Distinguish between two-tier and three tier client server architecture.	(4 marks)	
(d)	Define the following terms:			
	(i)	Denial of service.	(1 mark)	
	(ii)	Adware.	(2 marks)	
	(iii)	Denial of service.  Adware.  IP spoofing.  TVE in two technologies used to enable Internet of Things (LOT).	(2 marks) (Total: 20 marks)	
QUES (a)	TION F Expla	IVE in two technologies used to enable Internet of Things (LoT).	(2 marks)	
(b)	Define the following terms used in search engines:			
	(i)	Robots.	(1 mark)	
	(ii)	Spiders.	(1 mark)	
	(iii)	in two technologies used to enable Internet of Things (IoT).  e the following terms used in search engines:  Robots.  Spiders.  Metacrawlers.	(1 mark)	
(c)	Explain the following internet threats:			
	(i)	Pharming.	(2 marks)	
	(ii)	SQL injection.	(2 marks)	
	(iii)	Social engineering.	(2 marks)	
(d)	Expla	Explain the functions of each of the following TCP/IP protocol suite elements:		
	(i)	Internet control message protocol.	(2 marks)	
	(ii)	Transmission control protocol.	(2 marks)	
	(iii)	User datagram protocol.	(2 marks)	
(e)		Tile Transfer Protocol (FTP) is one of the main protocols in data transmission. High rotocol.	alight three functions of (3 marks) (Total: 20 marks)	