KASNEB

DICT LEVEL II

INTERNET SKILLS

MONDAY: 21 November 2016.

Time Allowed: 3 hours.

MO	DAT: 21 November 2010.	Anonca. 5 nours.	
Answ	er ALL questions. Marks allocated to each question are shown at the end of the question.		
QUE (a)	STION ONE Differentiate between "cyber bullying" and "cyber crime" in the context of Internet safety.	(4 marks)	
(b)	Highlight four legal issues raised by the use of the Internet.	(4 marks)	
(c)	State the role of each of the following as applied in Internet technology:		
	(i) Proxy server.	(2 marks)	
	(ii) DNS server.	(2 marks)	
(d)	Highlight four strategies of ensuring effective search using search engines.	(4 marks)	
(e)	Justify the importance of using a virtual keyboard in an online based system.	(2 marks)	
(f)	Outline two advantages of using Hypertext Transfer Protocol (HTTP) instead of File Transfer Protocol (FTP). (2 marks) (Total: 20 marks)		
QUE (a)	STION TWO Highlight issues that could be considered in each of the following Internet governance aspects:		
	(i) Internet freedom and human rights politics.	(2 marks)	
	(ii) Governing the Internet infrastructure.	(3 marks)	
	(iii) Standards and protocols governance.	(3 marks)	
(b)	Outline three reasons that have led to high demand for cloud computing services.	(3 marks)	
(c)	State three limitations of cellular Internet.	(3 marks)	
(d)	Explain the role of Wireless Body Area Network (WBAN). (2 marks)		
(e)	State two examples of each of the following programs in the context of the Internet:		
	(i) Web client.	(2 marks)	
	(ii) Web server.	(2 marks) (Total: 20 marks)	
QUI	STION THREE		
(a)	Distinguish between "web analytics" and "load balancing" as applied in website content managemen	t. (4 marks)	
(b)	Highlight three poor website design practices.	(3 marks)	
(c)	Explain the roles of the following as used in Internet connectivity:		
	(i) Protocols.	(2 marks)	
	(ii) IP address.	(2 marks)	
	(iii) Domain name.	(2 marks)	
	(iv) URL.	(2 marks)	
(d)	Outline three security threats to a server.	(3 marks)	
(e)	Describe the term "unified communications" in the context of Internet communication services.	(2 marks) (Total: 20 marks) TD22 Page 1 Out of 2	

QUE (a)	STION F Using at	rOUR n illustration, distinguish between two-tier and three-tier client/server architecture.	(6 marks)
(b)	Explain the following functions in the context of client/server model of computing:		
	(i) T	Transparency of location.	(2 marks)
	(ii) I	Encapsulation of services.	(2 marks)
	(iii) S	Scalability.	(2 marks)
(c)	Describ	e two problems associated with the use of Simple Mail Transfer Protocol (SMTP).	(4 marks)
(d)	Outline	the sequential steps used by POP3 email protocol to access emails.	(4 marks) (Total: 20 marks)
QUE (a)	STION I	FIVE three challenges posed by the Internet to the protection of privacy.	(3 marks)
(b)	Citing a	n example in each case, distinguish between absolute URL and relative URL.	(4 marks)
(c)	Disting	uish between the following terms in the context of Internet:	
	(i) '	'Blogosphere' and "e-commerce".	(2 marks)
	(ii) '	"Dynamic website" and "brochureware".	(2 marks)
(d)	Outline	four application areas of Internet of Things (IoT).	(4 marks)
(e)	State fiv	ve parts of an Internet browser.	(5 marks) (Total: 20 marks)
		three challenges posed by the Internet to the protection of privacy. In example in each case, distinguish between absolute URL and relative URL. In example in each case, distinguish between absolute URL and relative URL. It is between the following terms in the context of Internet: "Blogosphere" and "e-commerce". "Dynamic website" and "brochureware". If four application areas of Internet of Things (IoT). It is partially the parts of an Internet browser.	