

NCC EDUCATION

INTERNATIONAL DIPLOMA IN COMPUTER STUDIES

NETWORKING

JUNE 2009 – LOCAL EXAMINATION

SECTION A Answer all questions in this section.

SECTION B Answer any <u>two</u> questions in this section.

Time: 2 hours

Clearly cross out surplus answers. Failure to do this in Section B will result in only the first two answers being marked.

Any reference material brought into the examination room must be handed to the invigilator before the start of the examination.

SECTION A ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION 1 Briefly explain what a <i>WPAN</i> is.	Marks 4
QUESTION 2 Describe what a <i>terminator</i> is and describe its function in a networked environment.	4
QUESTION 3Briefly describe the following terms:a) Narrowband Radio LAN	2
b) Reflective Wireless Network	2
QUESTION 4 List the TWO (2) main methods of spread-spectrum communication and briefly describe them.	4
QUESTION 5Briefly describe the following channel access methods:a) Demand Priority	2
b) Polling	2
QUESTION 6Describe the following options for organising a NOS host drive.a) Multiple Boot	4
b) Multiple Partition, single-NOS	
QUESTION 7 Expand the abbreviation VNC and describe what VNC is used for	4
QUESTION 8Describe the following network security policies.a) Authentication Policy	4
b) A anna Daliau	

b) Access Policy

QUESTIONS CONTINUE ON NEXT PAGE

4

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QUESTION 9

List TWO (2) important considerations when choosing a switch.

QUESTION 10

List FOUR (4) tools that are included in Windows 2003 Server to monitor a server's performance.

Total 40 Marks

QUESTIONS CONTINUE ON NEXT PAGE

SECTION B ANSWER ANY <u>TWO</u> QUESTIONS

QUI	IESTION 1	Marks		
a)	Explain the difference between a routable protocol and a non-routable protocol.			
b)	Briefly describe the following FOUR (4) popular network protocols:i) Internet Protocol version 4 (IPv4)			
	ii) Internetwork Packet Exchange (IPX)	3		
	iii) Internet Protocol version 6 (IPv6)	3		
	iv) NetBIOS / NetBEUI	3		
c)	Briefly describe the following terms:i) Subnetting	3		
	ii) Supernetting	3		
d)	Explain the advantages and disadvantages of each of the following network architectures: i) Local Talk (CSMA/CA)			
	ii) Wireless (CSMA/CA)	2		
e)	Name and briefly describe TWO (2) methods that the Windows Operating System uses f	For file security. 4		
		Total 30 Marks		

QUESTIONS CONTINUE ON NEXT PAGE

QUESTION 2

- a) Briefly describe the FOUR (4) major implementations of 10 Mbps Ethernet
- b)

New Use	r	?>
User Name	thila	a007
Full Name	Thil	la Sentil
Description	HR	Manager
Password Confirm Passw 1 2 3 3 4	word	XXXXXXXXXXX
		Create

Figure 1

Figure 1 above shows the New User dialog box in Windows XP Professional with all the options that are available to control password information listed as 1, 2, 3 and 4. Identify and explain the password control options that are available (in any order).

c) List and describe the purpose of the FIVE (5) tabs in the Task Manager in Windows XP. 10 Total 30 Marks

QUESTION 3

a)	State THREE (3) advantages and THREE (3) disadvantages of using a router.	6
b)	ISDN is available in two formats. Name the TWO (2) formats and briefly describe them.	8
c)	Identify TWELVE (12) types of document that a Network Engineer should include in any network plan.	12
d)	List FOUR (4) factors that should be considered before deciding between a dial-up and a dedicated PSTN connection.	4

Total 30 Marks

END OF PAPER

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