ROLL NO.		

Code: DC70 **Subject: NETWORK MANAGEMENT**

Diplete - CS (NEW SCHEME)

Time: 3 Hours JUNE 2012 Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE: There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.

Q.1	Choose the correct or the b	est alternative in the following:	(2×10)
	a. E-mail exchange across the in their soft	ne world is possible because most vendors laware.	have adopted
	(A) HTTP	(B) SMTP	
	(C) SNMP	(D) None of the above	
	b. Network connectivity and	fault detection use the following:-	
	(A) Telnet	(B) View	
	(C) Ping	(D) SMTP	
	c. Tivoli is a product of		
	(A) CA	(B) IBM	
	(C) HP	(D) Dell	
	d. Relationship between con	trol and data tables are used in	
	(A) RMON	(B) FTD	
	(C) DNS	(D) None	
	e. A traffic monitoring tool span several packets is	that reconstructs and interprets protocol r	nessages that
	(A) Manager	(B) Analyzer	
	(C) Routing	(D) Alarm	
	f is a router that connects two networks and can perform protection		orm protocol
	(A) Hub	(B) Switch	
	(C) Either of the above	(D) None of the above	

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	g.	range of	ismission system operating with a maximum	
		(A) 3 miles	(B) 1 km	
		(C) 200 feet	(D) None of the above	
	h.	ISDN stands for		
		(A) Indian Services Dig(B) Integrated Services(C) International Servic(D) None of the above	Digital Network	
	i.	The correlator use alarm events with the event model and determines the common problem that caused the alarm event. This is used in		
		(A) Case-Based reasonir	ng (B) Model-Based reasoning	
		(C) Rule-Based reasoning		lel
	j.	layer controls flow of data in both directions.		
		(A) Cassian	(D) Natura de	
		(A) Session(C) Transport	(B) Network (D) Data link	
		. , 1		
		•	E Questions out of EIGHT Questions. question carries 16 marks.	
Q.2	a.	Describe the analogy Network management.	of Computer Networks management with	Telephone (5)
	b.	Write short notes on T	CCP/IP.	(2)
	c.	Explain any THREE management:-	$\underline{\underline{C}}$ features for each of the following	in network
		(i) Goals	(ii) Organisation	
		(iii) Functions.	, , <u>, , , , , , , , , , , , , , , , , </u>	(9)
Q.3	a.	Describe the OSI Netwo	ork Management Model.	(5)
	b.	Explain Network manaş	gement functional model.	(5)
	c.	Explain how information	on model and communication are related.	(6)
Q.4	a.	Illustrate how an NMS	could monitor a sub-network using a comme	rcial NMS. (8)
	b.	Specify in detail the S defining managed object	SNMP data type format that would serve tets.	the basis for (8)

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(8)

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Q.5	a.	Describe specifications of encapsulated SNMP message. Explain it diagram.	with a (8)
	b.	Elaborate RMON1 groups and functions.	(8)
Q.6	a.	Describe the basic configuration of a protocol analyzer. What a capabilities of the protocol analyzers that are available in the market?	re the (8)
	b.	Write short note on Traffic load monitoring and Protocol Statistics.	(8)
Q.7	a.	Discuss the CASE Based Reasoning (CBR) and Model-Based Reasoning correlation techniques.	event (8)
	b.	Explain Packet Filtering. Describe the function of Packet Filtering router diagram.	with (8)
Q.8	a.	Explain report management function for a network management appli Mention various planning and management reports.	cation. (8)
	b.	Explain Service Level Management and Policy Based Management.	(8)

b. Write short note on NMS with Web Interface and Web based Management.(8)

Q.9 a. Explain WBEM architecture with a diagram. Give its features.