ROLL NO.	

Code: DC70/DC123 Subject: NETWORK MANAGEMENT

DiplETE - CS (Current & New Scheme)

Time: 3 Hours Max. Marks: 100

December 2016

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.
- The answer sheet for the Q.1 will be collected by the invigilator after 45 Minutes of the commencement of the examination.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks.
- Q2 TO Q7 CAN BE ATTEMPTED BY BOTH CURRENT AND NEW SCHEME STUDENTS.
- Q8 AND Q9 HAVE BEEN GIVEN INTERNAL OPTIONS FOR CURRENT SCHEME (CODE DC70) AND NEW SCHEME (CODE DC123) STUDENTS.
- Any required data not explicitly given, may be suitably assumed and stated.

Q.1	Choose the correct or the best alternative in the following:	(2×10)
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- a. The network traffic monitoring tool *ping* is used to
 - (A) Measure point-to-point bandwidth of a link
 - (B) Measure round –trip packet loss
 - (C) Measure performance of gateways
 - (**D**) Dump traffic on network
- b. The term RMON when expanded is
 - (A) Remote Network Monitoring
 - (B) Remote Network Office Monitoring
 - (C) Remote Network Official Monitoring
 - (**D**) Reference Network Monitoring
- c. Token ring group ______ is associated with the function of generating historical utilization and error statistics of promiscuous data.
 - (A) Statistics

(B) Promiscuous Statistics

(C) Graph

- (D) None of these
- d. Which amongst the following is a valid symbol in ASN.1?
 - (A) " "

(B) ::=

(C)

(D) :+

- e. ASN.1 stands for
 - (A) Abstract Syntax Notation 1
 - (B) Absolute Semantic Notation 1
 - (C) Abstract Semantic Notation 1
 - (D) None of these

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	f is a non-negative integer and measures time in units of hundre				
		of a second.			
		(A) Counter	(B) Gauge		
		(C) Time Ticks	(D) Opaque		
	g.	BERT stands for			
	Ū	(A) Bit Error Rate Transfer	(B) Byte Error Rate Tester		
		(C) Bit Error Rate Tester	(D) Byte Error Rate Transfer		
	h.	Finite state machine model is a			
		(A) Passive system	(B) Active system		
		(C) General system	(D) None of these		
	i is information-modeling framework intended to accommodate				
		protocols and frameworks.			
		(A) MIF	(B) DMI		
		(C) CIM	(D) DMFT		
	j.	RFC stands for			
		(A) Radio Frequency Communication	S		
		(B) Request For Comments			
		(C) Radio For Commoners			
		(D) None of these			
Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.					
		Each question ca	rries 16 marks.		
Q.2	a.		plain Distributed Computing Environment		
Q.2		With the help of a neat diagram, ex	plain Distributed Computing Environment	with (8)	
Q.2	b.	With the help of a neat diagram, ex LANs and WANs. Explain the TCP/IP based internet and	plain Distributed Computing Environment intranet network.	(8) (4)	
Q.2	b.	With the help of a neat diagram, ex LANs and WANs. Explain the TCP/IP based internet and	plain Distributed Computing Environment intranet network.	(8) (4)	
Q.2 Q.3	b. c.	With the help of a neat diagram, ex LANs and WANs. Explain the TCP/IP based internet and Define communication protocol and management.	plain Distributed Computing Environment intranet network. list the commonly used protocols in network. d? With the help of a block diagram, outlined.	(8) (4) work (4)	
	b. c.	With the help of a neat diagram, ex LANs and WANs. Explain the TCP/IP based internet and Define communication protocol and management. What is ASN.1 and why is it require	plain Distributed Computing Environment intranet network. list the commonly used protocols in network. d? With the help of a block diagram, outlined.	(8) (4) work (4)	
	b.c.a.b.	With the help of a neat diagram, ex LANs and WANs. Explain the TCP/IP based internet and Define communication protocol and management. What is ASN.1 and why is it require ASN.1 data type structure and tag. List the five Network Management Structure and tag.	plain Distributed Computing Environment intranet network. list the commonly used protocols in network. d? With the help of a block diagram, outlined.	(8) (4) work (4) e the (8) (8)	
Q.3	b.c.a.b.a.	With the help of a neat diagram, ex LANs and WANs. Explain the TCP/IP based internet and Define communication protocol and management. What is ASN.1 and why is it require ASN.1 data type structure and tag. List the five Network Management SWith the help of suitable diagram model of SNMP management.	plain Distributed Computing Environment intranet network. list the commonly used protocols in network. d? With the help of a block diagram, outline standards with their salient points.	(8) (4) work (4) e the (8) (8) ation (4)	
Q.3	b.c.a.b.b.	With the help of a neat diagram, ex LANs and WANs. Explain the TCP/IP based internet and Define communication protocol and management. What is ASN.1 and why is it require ASN.1 data type structure and tag. List the five Network Management SWith the help of suitable diagram model of SNMP management. Draw the SNMP Network Management.	plain Distributed Computing Environment intranet network. list the commonly used protocols in network? With the help of a block diagram, outlined that the salient points. Explain the two-tier and three-tier organization (4+)	(8) (4) work (4) e the (8) (8) ation (4)	

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Q.6	a.	What is meant by network provisioning? How is it implemented in the technology?	ATM (8)		
	b.	Explain any two event correlation techniques.	(8)		
Q.7	a.	Write a description of report management function of network manage application. What are the specific planning and management reports?	ement (8)		
	b.	Explain Policy-Based Management.	(8)		
08 (For C	Current Scheme students i.e. DC70)			
Ų. 0 (Identify the five functional components of a Network management system. List an service offered by each of these components along with pictorial representation.	y one (8)		
	b.	Write short notes on the following:- (i) Bit Error Rate Tester (ii) Network Traffic Monitoring Tools	(8)		
Q.8 (For N	New Scheme students i.e. DC123)			
	a.	Write about Network Statistic Measurement Systems.	(8)		
	b.	What do you mean by Network Management Systems (NMS)? Discuss about functional components.	out its (8)		
α	Ton (Current Scheme students i.e. DC70)			
Q.9 (,	Describe the components used in web-based enterprise management.	(8)		
	b.	Explain Embedded Web Based Management Configuration with a diagram. Gifeatures.	ve its (8)		
O 9	Q.9 (For New Scheme students i.e. DC123)				
V •>		Write in brief about Broadband Access technologies.	(8)		

(8)

b. Draw and explain about the ATM Network Reference Model.