ROLL NO.		

Code: DC70 **Subject: NETWORK MANAGEMENT**

Diplete - CS

Time: 3 Hours JUNE 2014 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.
- The answer sheet for the Q.1 will be collected by the invigilator after 45 minutes of

Q.1	y required data not explicitly given, may be suitably assumed and stated. Choose the correct or the best alternative in the following: (2×10)				
	a. Network Management can be defin for	ed as OAM&P which is abbreviation			
	 (A) Operations, Audit, Maintenanc (B) Operations, Administration, Ma (C) Operations, Administration, Ma (D) Operations, Administration, Ma 	aintenance and Provisioning anagement and Provisioning			
	b. In the seven-layered SNA model, the physical, data link and application layers have correspondence with the OSI layers.				
	(A) One-to-many(C) Many-to-one	(B) One-to-one(D) No communication			
	c. OSI uses the following protocols for transportation				
	(A) connection-oriented(C) both (A) & (B)	(B) connectionless(D) none of these			
	d. Two new data types defined in the	RMON1 textual conventions were			
	(A) WebString and EntryStatus(C) OwnerStatus and EntryString	(B) OwnerString and EntryText(D) OwnerString and EntryStatus			
	e is a non-negative inte	ger and measures time in units of hundredths			
	(A) Counter (C) Time Ticks	(B) Gauge (D) Opaque			

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	i. The traffic management tool ipti	ace			
	(A) is used for measuring round-(B) measures point-to-point band(C) inspects Ethernet packets(D) none of these	* *			
	g. Counter is a non negative number and can increase to a maximum value of				
	(A) 2^{32} - 1 (C) 2^{32}	(B) 2 ⁶⁴ - 1 (D) none of these			
	h. BERT stands for				
	(A) Bit Error Rate Transfer(C) Bit Error Rate Tester	(B) Byte Error Rate Tester(D) Byte Error Rate Transfer			
	i. In an event correlator is built on an object-oriented model associated with each managed object.				
	(A) Role-based reasoning(C) Case-based reasoning	(B) Model-based reasoning(D) Critic-based adaption			
	j. The Jiro Platform comprises of				
	(A) ODBC and DCOM(C) Three Tier Model	(B) Object Model and Component Model(D) Both (B) and (C)			
	•	ions out of EIGHT Questions. n carries 16 marks.			
Q.2	a. With the help of suitable diagram explain the architecture of the telephone network model. (8)				
	b. Explain different OSI network i	management applications defined by ISO. (8)			
Q.3	a. List the five Network Managem	List the five Network Management Standards with their salient points. (10)			
	b. Describe the two-tier Network	Management organizational model with diagram.			
Q.4	a. List SNMP based ASN.1 data to appropriate comments.	(6) List SNMP based ASN.1 data type structures with supported data types and appropriate comments. (8)			
		twork Management Architecture and explain the er application process and the agent application anction protocols. (8)			

(8)

(8)

Subject: NETWORK MANAGEMENT Code: DC70 a. Define an SNMP access policy in SNMP management. Elaborate using a 0.5 diagram. (10)b. What is Remote Monitoring? **(6)** 0.6 a. Write the syntax and one example for the following SNMP command-line tools **SNMP** Get Command (ii) SNMP Get-Next Command (iii) SNMP Walk Command (3×3) b. With the help of suitable diagram, describe a functional NMS Configuration? **(7) Q.7** a. What is meant by network provisioning? How is it implemented in the ATM technology? b. Describe the basic five points guide to setting up policies and procedures. (5) **Q.8** a. How we classify reports under report management? List the different category for each report. b. Define the term Service level management. What is the objective of service

a. Explain Desktop Management Interface with a diagram.

b. What is Jiro? Draw a diagram to explain.

level management?

0.9