ROLL NO.

Diplete – CS (NEW SCHEME) -

Code: DC70

Subject: NETWORK MANAGEMENT

Time: 3 Hours

DECEMBER 2011

Max. Marks: 100

NOTE: There are 9 Questions in all.

- Please write your Roll No. at the space provided on each page immediately after receiving the Question Paper.
- 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.
- 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)

a. The secret key cryptography is _____ which use same key for encryption and decryption, but public key cryptography is _____ with a public and private key which are different.

(A) symmetric, asymmetric	(B) symmetric, dual
(C) asymmetric, dual	(D) both (B) and (C)

- b. The following models are valid for network management model
 - (A) Organisation, Information, Communication
 - (B) Organisation, Behavioural, Functional
 - (C) Information, Communication, Dataflow
 - (**D**) None of the above
- c. Unicenter TNG is a product of

(A) CA	(B) IBM
(C) HP	(D) Dell

- d. The expansion for WBEM is:
 - (A) Web Based Entity Management
 - (B) Web Based Electronic Machine
 - (C) Web Based Enterprise Management
 - (**D**) None of the above
- e. ______is a threat that some unauthorized user may send information to another user, assuming the identity of an authorized user.

(A) Masquerade	(B) Modification
(C) Disclosure	(D) Privacy

f. In RMON, _____ modules which are LAN probes, collect data from remotely monitored network with Ethernet and token ring LAN

(A) Data fusion	(B) Data diffusion		
(C) Data gathering	(D) both (B) and (C)		

g. Counter is a non negative number and can increase to a maximum value of

(A) 2^{32} - 1	(B) 2 ⁶⁴ - 1
(C) 2^{32}	(D) None of the above

- h. RFC stands for
 - (A) Radio Frequency Communications
 - (B) Request For Comments
 - (C) Radio For Commoners
 - **(D)** None of the above
- i. Valid reports in quality of service for planning and management

(A) Traffic patterns	(B) Current status
(C) Personnel	(D) Network availability
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j. Facilities Installation is a responsibility covered under_____ as part of Network Management.

(A) Network Operations(C) Network Maintenance

(B) Network Provisioning(D) Both (B) and (C)

Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.

- Q.2 a. Describe the salient characteristics and features of client-server architecture models and provide an analogy with the client-server operation in a post office.
 (9)
 - b. What are the names of seven OSI Layers? Please list the salient services provided by each of these layers. (7)
- Q.3 a. Describe the communication protocol used to transfer information between managed object and managing processes, as well as between management processes.
 (6)
 - b. Explain ASN.1. Give an example to illustrate data type definition. (3+2)

	c.	Explain the functional model component of the OSI network Manag Model.	ement (5)
Q.4	a.	Explain history of SNMP Management.	(4)
	b.	Describe simple two-tier and three tier organization model of S management.	SNMP (5)
	c.	Draw the flow to indicate SNMP manager and SNMP agent in SNMP ne Management architecture.	etwork (7)
Q.5	a.	Explain SNMP access policy in SNMP management with diagram.	(5)
	b.	Explain any four SNMP operations.	(3)
	c.	Explain features of RMON1 and RMON2.	(4)
	d.	Explain the working of ATM Remote monitoring.	(4)
Q.6	a.	List seven network monitoring tools with the operating system and functionality.	their (7)
	b.	Explain the components of network management system.	(4)
	c.	Compare high-end and low-end system management features.	(5)
Q.7	a.	Explain any two event correlation techniques.	(8)
	b.	Explain any four security management techniques.	(8)
Q.8	a.	Explain accounting management and report management.	(8)
	b.	Describe the policy management architecture proposed by Lewis for ne management.	twork (8)
Q.9	а.	Explain Desktop Management Interface (DMI) with a diagram. Explain functional block diagram.	DMI (8)
	b.	Explain Jiro architectures.	(4)
	c.	Explain feature of Java Dynamic management kit.	(4)