

Code: DC70

Subject: NETWORK MANAGEMENT

DipIETE – CS

Time: 3 Hours

DECEMBER 2013

Max. Marks: 160

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.
- 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. PSTN stands for

- (A) Public-Switched Telephone Network
- (B) Private- Switched Telephone Network
- (C) Public-Service Telephone Network
- (D) Private-Service Telephone Network

b. Suits of protocols that enable networks to be interconnected is with the help of

- (A) UDP
- (B) Datagram Protocol
- (C) TCP/IP
- (D) None of these

c. The process of identifying and correcting network problems is known as

- (A) Configuration Management
- (B) Fault Management
- (C) Performance Management
- (D) Accounting Management

d. The parameters that describe the data in a data table(typically read-only) is called

- (A) Data table
- (B) Index table
- (C) Functional table
- (D) Control table

e. Aggregate objects are also known as

- (A) Tabular objects
- (B) Circular objects
- (C) Rectangular objects
- (D) None of these

f. The length of SNMP messages should not exceed

- (A) 484 octets
- (B) 500 octets
- (C) 700 octets
- (D) 800 octets

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- g. Finite state machine model is a
- (A) Passive system (B) Active system
(C) General system (D) None of these
- h. Change of originating address by unauthorized user is called
- (A) Masquerade (B) Disclosure
(C) Data Monitoring (D) Snooping
- i. A device which protects a network from external attacks is called
- (A) Hub (B) Switch
(C) Router (D) Firewall
- j. DMTF stands for
- (A) Desktop Management Task Force
(B) Data Management Task Force
(C) Disk Memory Task Force
(D) Design Management Task Force

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

- Q.2** a. Describe TCP/IP based networks. Write down the protocol used in network management. (8)
- b. Draw a diagram Top-down view of network management functions. (8)
- Q.3** a. Describe a list and an ordered list is ASN.1 syntax, Identify the differences between them. (8)
- b. Give the difference between two-tier and three-tier network management organization model. (8)
- Q.4** a. Describe SNMP System Architecture and the services provided by SNMP. (8)
- b. Describe the structure of Management Information Base (MIB) module. (8)
- Q.5** a. What SNMP operations comprised of ? Explain Get Request –PDU and Get Next Request-PDU operation. (8)
- b. Explain RMON1 function at the data link layer. (8)

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- Q.6** a. What is Bit Error Rate Tester? How it can be useful for in network management tools? (8)
- b. What do you understand by system management? What parameters can be measured using system management tools. (8)
- Q.7** a. Describe fault and performance management in network management applications. (8)
- b. What is packet filtering firewall? Discuss the types of encryption techniques. (8)
- Q.8** a. What do you understand by Report Management? List three categories of reports and type of reports in each category. (8)
- b. Explain service Level Management process. (8)
- Q.9** a. Describe the components used in web-based enterprise management. (8)
- b. What do you mean by service driven network? How Java Dynamic management kit works? (8)