

DiplETE – CS

Time: 3 Hours

JUNE 2013

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 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 OSI layer which performs data encryption and decryption is _____ layer.
- (A) Presentation (B) Network
(C) Session (D) Transport
- b. An intranet is a _____ network
- (A) Public switched (B) Private switched
(C) Global area (D) Wide area
- c. User Datagram Protocol is a _____ Protocol
- (A) Connection less (B) Connection oriented
(C) SNMP (D) None of these
- d. The algorithm to convert the textual ASN.1 syntax to machine readable code is called as _____
- (A) Abstract Syntax (B) Transfer Syntax
(C) Basic Encoding Rules (D) None of these
- e. An intermediate agent called Remote Monitoring is inserted between the managed object and the network manager is in _____ organization model.
- (A) Two-Tier (B) Three-Tier
(C) Proxy Server (D) None of these
- f. A reporting/logging tool that can be triggered by specific events with a network is _____
- (A) Manager (B) Alarm
(C) Analyzer (D) Traffic

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- g. A traffic monitoring tool that is used to measure point-to-point bandwidth of a link is _____
- (A) Ping (B) Snoop
(C) Bing (D) Etherfind
- h. The layer used for formatting of data, performing of data error control and flow control is _____
- (A) Data link (B) Network
(C) Session (D) Transport
- i. A device with a mini-web browser, that can be used as a wired or wireless hand-held device is called as _____
- (A) Webphone (B) Telephone
(C) Cordlessphone (D) FAX
- j. Service level agreement and user specific reports are the important categories in _____ reports of Report Management
- (A) Planning & Management (B) System
(C) User (D) None of these

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

- Q.2** a. With the help of a neat diagram, explain Distributed Computing Environment with LANs and WANs. (8)
- b. State the differences between Network and System management. (8)
- Q.3** a. Explain Two-Tier and Three-Tier Network Management Organization Models with suitable diagrams. (8)
- b. Describe the Network Management Standards and their salient features. (8)
- Q.4** a. Draw the SNMP Network Management Architecture and explain its function. (8)
- b. What is meant by Object Identifier in the structure of Management Information and explain different formats of declaration of Object Identifier. (8)
- Q.5** a. Describe specifications of SNMP Community Profile. Explain it with a diagram. (8)
- b. Explain RMON2 groups and functions. (8)

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- Q.6** a. Explain any four functional components of a Network Management Systems and explain their services with examples. **(8)**
- b. Write short notes on the following:-
(i) Bir Error Rate Tester
(ii) Network Traffic Monitoring Tools. **(8)**
- Q.7** a. What is meant by fault? What are the five step processes involved in Fault Management? Explain Performance Metrics with a diagram. **(8)**
- b. Explain Cryptography. Describe the function of basic Cryptographic Communication with a diagram. **(8)**
- Q.8** a. Differentiate between Report Management and Policy Based Management. **(10)**
- b. Write short note on Accounting Management. **(6)**
- Q.9** a. Explain Embedded Web Based Management Configuration with a diagram. Give its features. **(8)**
- b. What is the need of Java Dynamic Management Kit? Draw the Java Dynamic Management Agent Architecture and explain its function. **(8)**