

DiplETE – CS

Time: 3 Hours

DECEMBER 2012

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. Trunk (logical entity between switches) maintenance system measures _____

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|------------------------------|--------------------------------|
| (A) loss and S/N ratio | (B) call blockage and loss |
| (C) S/N ratio and congestion | (D) flooding and call blockage |

b. _____ is information-modeling framework intended to accommodate all protocols and frameworks.

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| (A) MIF | (B) DMI |
| (C) CIM | (D) DMFT |

c. _____ used to gather lots of information on hosts from DNS.

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|--------------|------------------------|
| (A) ifConfig | (B) Ping |
| (C) nslookup | (D) Domain Name Groper |

d. _____ is an example for Generic trap.

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|-----------------|-------------------------|
| (A) Cold start | (B) Time stamp |
| (C) Get request | (D) Statics measurement |

e. _____ gathers data from MO, analyses the data and stores the data.

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| (A) RMON | (B) TCP |
| (C) UDP | (D) NMS |

f. RFC stands for

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|---------------------------|-----------------------------------|
| (A) Requests for commands | (B) Requests for communication |
| (C) Requests for comments | (D) Radio Frequency Communication |

- g. _____ is a platform for managing storage area network.
- (A) Jiro (B) JMX
(C) JDMK (D) None of these
- h. DTMF stands for _____
- (A) Desktop Task Management Framework
(B) Desktop transmission management framework
(C) Desktop Management Task Force
(D) None of these
- i. Network management done centrally from _____
- (A) Network Operations Center (B) Network Distributed system
(C) Network hub (D) Transmission cable
- j. _____ technique uses same key to encrypt and decrypt in cryptography.
- (A) Symmetric key (B) Asymmetric
(C) Shared key (D) None of these

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

- Q.2** a. Compare SNA, OSI and Internet models by giving suitable diagram. (8)
- b. Explain different functional grouping in network management. (8)
- Q.3** a. Illustrate the working of management communication protocols. (8)
- b. Explain ASN.1 Data type structure and tag. Illustrate using suitable example. (8)
- Q.4** a. Explain different SNMP-Based ASN.1 data type structures. (8)
- b. Explain different SNMP organization models. (8)
- Q.5** a. Explain the working of RMON2 Management Information Base. (8)
- b. Explain any four common RMON1 and Ethernet groups. (8)
- Q.6** a. Explain different NOC tool categories. (8)
- b. Explain different management areas in Enterprise management system with examples for each. (8)

Code: DC70

Subject: NETWORK MANAGEMENT

- Q.7** a. Briefly explain generic architecture of Codebook Correlation Model. (8)
b. Explain different security threats to management information. (8)
- Q.8** a. Explain different categories in report management. (8)
b. Illustrate the working of policy based management. (8)
- Q.9** a. Explain the working of Web-Based Enterprise Management. (8)
b. Explain the architecture of the Jiro platform in storage area network. (8)