

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 _____
- (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.
- (A) MIF (B) DMI
(C) CIM (D) DMFT
- c. _____ used to gather lots of information on hosts from DNS.
- (A) ifConfig (B) Ping
(C) nslookup (D) Domain Name Groper
- d. _____ is an example for Generic trap.
- (A) Cold start (B) Time stamp
(C) Get request (D) Statics measurement
- e. _____ gathers data from MO, analyses the data and stores the data.
- (A) RMON (B) TCP
(C) UDP (D) NMS
- f. RFC stands for
- (A) Requests for commands (B) Requests for communication
(C) Requests for comments (D) Radio Frequency Communication

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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)

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- 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)