QP Code: 29896

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[Total Marks: 80]

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(2) Solve any three questions out of the remaining five questions.

Q1. A company has its central office in Dadar.It has three sub- offices in Andheri, Vashi and Chembur. Total number of nodes required at Dadar is 400 while at the sub-offices 72 nodes each are required.

Design the office structure with classless addressing scheme with any suitable starting address.

- Q2. Discuss the business and technical challenges of an organization which a network designer

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 must understand. Discuss also the time and delay considerations.
- Q3.a.What are the different steps of top-down network design? List typical technical goals and business goals.
 - b.Explain the relevance of queuing theory in Network design.

Explain M/M/1 queuing model.

- Q4.a.Discuss the common network problems and various challenges faced by an IT manager to

 manage the network of an enterprise.
 - b.Discuss the two -tier and three- tier organization model of a network management system. 10
- Q5.a. Explain SNMP community profile and SNMP access policy.
 - b.Compare SNMP v1& v2 network management architecture.
- Q6. Write short notes on (FMY TWO):-
 - (a) ASN.1 notation.
 - (b) TMN Functional Architecture.
 - (c) RMON
 - (d) Network management standards.