

Total No. of Questions : 8]

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Roll No .....

**CS-8201 (GS)****B.E. VIII Semester**

Examination, May 2018

**Grading System (GS)****Network Management***Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions.  
ii) All questions carry equal marks.

1. a) Explain the functional grouping of network management? 7  
b) Discuss the functions of facit management? 7
2. a) What is the purpose of SGMP in network management? Explain SGMP operations. 7  
b) Define Accounting management? Discuss in role within a corporation. 7
3. a) Describe the structure of management information? Also discuss remote monitoring. 7  
b) What do you mean by Desktop Management Interface? Explain its architecture. 7
4. a) What is Address Resolution Protocol and how does it works? Give the packet format of ARP. How can a computer use ARP to break security? 7  
b) What are the limitations of IPv4 protocol? How these can be overcome in IPv6? Also make a comparison between IPv4 and IPv6. 7

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5. a) Describe the working of open shortest path first protocol (OSPF) with suitable example. 7  
b) Explain the concept of designing a Virtual Private Network (VPN)? Why it is designed and list out benefits from it? 7
6. a) Explain TCP connection establishment and termination process with the help of state transition diagram. 7  
b) Explain the following ICMP message types: 7  
i) ICMP address mask request and reply  
ii) ICMP echo request and reply  
iii) ICMP time stamp request and reply
7. a) Explain how packets are exchanged between client and server in SMTP? 7  
b) Give a brief note on Telnet protocol and file transfer protocol. 7
8. Write short notes: 14  
a) X-window system protocol  
b) Network Address Translation  
c) Remote procedure call  
d) CIDR

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