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Roll No

CS-702(C)-CBGS

B.Tech., VII Semester

Examination, December 2020

Choice Based Grading System (CBGS)

Wireless and Mobile Computing

Time : Three Hours

Maximum Marks : 70

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

1. a) How many class A, B and C network can exist? How many hosts can a network in each class have?
b) You have an IP Address of 172.16.13.5 with 253.295.295.128 subnet mask. What is your class of address, subnet address, and Broadcast address.
2. a) What is Open Shortest Path First (OSPF) protocol? How do routers use OSPFV2 message to broadcast information about the status of its directly connected link to all others routers?
b) What is BGP? Explain the characteristics of BGP?
3. a) What are the causes of silly window syndrome? How it is avoided explain.
b) What is CIDR? What are the advantages of CIDR over classful addressing?
4. a) List and explain the issues in designing a MAC protocol for adhoc networks.
b) Discuss hidden and exposed terminal problem and near and far terminal problem.

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5. Explain the following terms associated with mobile IP.
 - i) Home Network
 - ii) Home address
 - iii) Foreign Network
 - iv) Foreign Agent
 - v) Care of Address
 - vi) Home Agent
6.
 - a) Explain in detail I-TCP, S-TCP and M-TCP.
 - b) Define Handoff. What are its types?
7.
 - a) What are the four types of handover available in GSM?
 - b) Explain structure, Pros and Cons of M-commerce.
8. Write short notes (any three):
 - i) Mobile Operating System
 - ii) Software Development Kit
 - iii) DSR
 - iv) UDP and TCP
