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## **EC-8003(2)-CBGS**

### **B.E. VIII Semester**

Examination, December 2020

## **Choice Based Grading System (CBGS)**

### **Mobile Computing**

*Time : Three Hours*

*Maximum Marks : 70*

**Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Draw and explain the Architecture of 802.11a and 802.11b.  
b) Write a note on MAC Management with suitable sketch.
2. a) Name the main elements of the GSM system architecture and describe their functions.  
b) Differentiate between GSM and GPRS. Why is a new infrastructure needed for GPRS?
3. What is HIPERLAN? Discuss the protocol architecture of HIPERLAN.
4. Explain the following:  
i) Snooping TCP  
ii) Indirect TCP
5. a) Discuss MAC Sub layer with suitable diagram.  
b) What is DHCP? How does DHCP support dynamic address allocation?

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6.
  - a) Discuss the characteristic and performance issue in mobile ad-hoc networks.
  - b) Explain about indirect TCP, Snooping TCP and mobile TCP.
7.
  - a) Explain briefly about viruses, worms and Trojan horse defense.
  - b) Discuss about firewall design principle.
8. Write short notes on any two of the following.
  - i) Poison arrival process
  - ii) TETRA, UMTS
  - iii) HIPERLAN

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