



## Term Evaluation (Even) Semester Examination March 2025

Roll no.....

Name of the Course and semester: B. Tech-CSE (8<sup>th</sup> Semester)

Name of the Paper: Mobile Computing

Paper Code: TOE- 811

Time: 1.5 hour

Maximum Marks: 50

### Note:

- (i) Answer all the questions by choosing any one of the sub questions
- (ii) Each question carries 10 marks.
- (iii) Please specify COs against each question.

### Q1.

(10 Marks)

- a. Elaborate the concept of Mobility in Mobile computing? Explain about address migration?  
CO1

OR

- b. An octagon- shaped cell is closer to a circle than a hexagon. Explain why such a shape is not used as an ideal shape of the cell.  
CO1

### Q2.

(10 Marks)

- a. How do you compare hybrid with fixed channel allocation? Which one would you prefer and why?  
CO1

OR

- b. There are two basic system architecture of IEEE 802.11. Explain it and discuss, how it allows building of Adhoc networks?  
CO1

### Q3.

(10 Marks)

- a. Explain HLR and VLR concept for location management in mobile communication.  
CO1

OR

- b. Discuss about the important transmission mechanisms of signal propagation along with their advantages and disadvantages.  
CO2

### Q4.

(10 Marks)

- a. Why does power control become one of the main issues for the efficient operation of the CDMA?  
CO2

OR

- b. Show clearly how IP-in-IP tunneling is used in Mobile IP?  
CO2

### Q5.

(10 Marks)

- a. Discuss about TCP/IP protocol suite with suitable example of protocol defined at each and every layer.  
CO2

OR

- b. Intricate the various challenges in data management? Discuss about Rumor Replicated File System.  
CO3