

2021  
B.E. (Computer Science and Engineering)  
Seventh Semester  
CS-705D: Mobile Computing

Time allowed: 3 Hours

Max. Marks: 50

**NOTE:** Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

- I. Attempt the following:-
- How smart and automative systems play vital role in home automation?
  - Compare FHSS and DSSS?
  - What is significance of Session protocol?
  - What is use of Vector tool or Application process in Query Processing?
  - What is the relation of SOAP with XML? Explain. (5x2)

**UNIT – I**

- II. a) What is Mobile Computing? How it is different from Mobile Cloud Computing. Explain with the architecture of both technologies?  
b) How cellular networks evolved? (2x5)
- III. Explain in detail, with the help of architectural diagrams, the technology and implementation of security policies in an end-to end telecommunications networks. (10)
- IV. How Agent Advertisement, Discovery and Registration process differentiates in IPv4 and IPv6 networks respectively? (10)

**UNIT – II**

- V. a) Why Wireless Transaction Protocol is a lightweight protocol? How does it work?  
b) Why selective retransmission is preferred in TCP over wireless domain? (2x5)
- VI. Describe any Mobile Database transaction model along with its transaction properties, mobility, disconnection and distributed execution. (10)
- VII. Explain the following:-  
a) OLSR protocol  
b) Mobile Application Development Tools (2x5)

x-x-x