



B.Tech VII Semester Regular/Supplementary Examinations, November 2022

MOBILE COMPUTING
(Professional Elective)
(Information Technology)

Maximum Marks: 70

Date:03.12.2022 Duration: 3 hours

- Note:
- 1.This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 Define Mobile Computing.
- 2 What do you mean by the term Localization?
- 3 Define MAC.
- 4 Define the term mobile IP.
- 5 Justify the need for TCP protocol in mobile networks.
- 6 Define the term database hoarding.
- 7 Define the term data dissemination.
- 8 What do you mean by broadcast model?
- 9 What is the need for routing?
- 10 What do you mean by mobile agent?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Explain in detail about the architecture of Mobile computing. 10M
OR
- 12 Explain in detail about the GSM architecture with diagram. 10M
- 13 Based on the MAC protocol, identify the various fixed assignment schemes that could be used for effective channel utilization. 10M
OR
- 14 Explain in brief about DHCP Protocol. 10M
- 15 Explain: (i) Indirect TCP 5M
(ii) Snooping TCP 5M
OR
- 16 Explain in detail about Client-Server Computing with diagram. 10M

17 Discuss briefly about the Classification of Data Delivery Mechanisms. 10M

OR

18 Explain about the following:

- (A) Data Dissemination
- (B) Broadcast Models

5M
5M

19 Explain in brief about the following routing algorithms:

- (A) DSR
- (B) AODV

5M
5M

OR

20 Explain about the following platforms used for mobile computing

- (A) Android
- (B) Symbian OS

5M
5M