



B.Tech VII Semester Supplementary Examinations, December 2024

MOBILE COMPUTING

(CSE) 10-01-2025

Maximum Marks: 70

Date: ~~27-12-2024~~

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)		CO	Bloom Tx
1	What is Mobile Computing?	1	L1
2	Briefly Write about MAC protocols	1	L1
3	What is Virtual Home Environment (VHE)	2	L1
4	What is HLR and VLR in GSM	2	L1
5	Write any 2 disadvantages of Mobile IP	3	L1
6	What is the difference between Mobile IP and DHCP	3	L1
7	What is WML	4	L1
8	Briefly write about Wireless Telephony Agent/Application	4	L1
9	Why Mobile Device OS is important	5	L1
10	Write any 2 security issues in Mobile OS	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Explain in detail the Characteristics of Mobile Computing. [10M]	1	L2
OR			
12	Write all the Generations of Mobile Communication Technologies. [10M]	1	L2
13	Draw the GSM architecture diagram and identify all the components with their responsibilities. [10M]	2	L2
OR			
14	Explain frequency allocation and routing in GSM. [10M]	2	L2
15	Explain DSR and AODV routing protocols with respect to AdHoc networks. [10M]	3	L2
OR			
16	a. Write about DHCP? [5M] b. Write the design goals and requirements of Mobile IP? [5M]	3	L2
17	Explain the WAP architecture in detail. [10M]	4	L2
OR			
18	a. What is TCP and also write about I-TCP & S-TCP? [5M] b. What is M-TCP and explain, [5M]	4	L2
19	Explain all the constraints and requirements of mobile OS [10M]	5	L2
OR			
20	Explain MCommerce and Mobile Payment [10M]	5	L2