



Regulation R17

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code: 1E6FA

B.Tech III Year II Semester Supplementary Examinations, January 2023 MOBILE COMPUTING

(IT)

Maximum Marks: 70

19/01/2023

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.
 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 Handover in GSM.
- 2 Explain tele services in GSM briefly.
- 3 What are the Requirements for implementing Mobile IP.
- 4 Define Encapsulation. What are the types of Encapsulation?
- 5 Define Snooping TCP.
- 6 What are the advantages and disadvantages of Indirect TCP?
- 7 Define 3-tier client-server architecture.
- 8 Define Data Caching. Write short notes on it.
- 9 List out the properties of MANET.
- 10 Define J2ME.

Part-B

Answer All the following questions.

(10M X 5=50Marks)

- 11 a) Demonstrate GSM protocols in detail. 5
b) Discuss about Novel Applications of Mobile Computing. 5
OR
- 12 Explain the concept of Localization and Calling in GSM. 10
- 13 a) Explain SDMA technique with neat diagram. 5
b) Explain Generic Routing Encapsulation with packet format. 5
OR
- 14 Explain the following Medium Access Control Mechanisms 5
i) Exposed and Hidden Terminals ii) Near and Far Terminals. 5
- 15 Explain Mobile TCP with its advantages and disadvantages. 10
OR
- 16 a) Explain Transmission/Time-out Freezing in detail. 5
b) Demonstrate congestion control in TCP. 5
- 17 Discuss about Transaction models and Query processing in Database. 10
OR
- 18 a) Explain Pull Based mechanism with its advantages and disadvantages. 5
b) Illustrate communications Asymmetry in detail. 5
- 19 a) Explain the Security in MANET'S. 5
b) Explain Dynamic Source Routing Protocol. 5
OR
- 20 Demonstrate J2ME with layer stack in detail 10

