



R17 Regulation

Subject code: 1E7EC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech IV Year I Semester Regular Examinations, February 2021

MOBILE COMPUTING

(Computer Science and Engineering)

Maximum Marks: 70

Date: 27.02.2021 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 Point out the features of 2.5 G communication technology.
- 2 Explain in what ways is GPRS better than GSM?
- 3 Compose a role which is played by MAC protocols in Mobile computing.
- 4 What is meant by DHCP? Why does an IP conflict occurs?
- 5 Define the TCP issues in Mobile IP networks.
- 6 Examine the use of snoop protocol in TCP.
- 7 List out the classifications of Data-Delivery Mechanisms
- 8 What is the use of Temporal Addressing in Selective Tuning?
- 9 Classify different types of MANET Routing Protocols.
- 10 Analyze WAP using a Client – Server diagram.

Part-B

Answer All the following questions. (10M X 5=50Marks)

- 11 Describe the GSM architecture in detail.(10M)
OR
- 12 (a) Explain GPRS transmission plane protocol reference model. (6M)
(b) Explain GPRS services. (4M)
- 13 Compare and contrast SDMA, TDMA, FDMA and CDMA schemes.(10M)
OR
- 14 Demonstrate the operation of DHCP with a neat diagram and explain its protocol architecture.(10M)
- 15 (a) Discuss in detail about Mobile TCP. (6M)
(b) Summarize the TCP approaches used in Mobile Networks.(4M)
OR
- 16 Explain in detail about Data Recovery Process and QoS Issues. (10M)
- 17 Discuss in detail about Selective Tuning and Indexing methods. (10M)
OR
- 18 Explain in detail about the protocol models for data synchronization. (10M)
- 19 Analyze the working of DSR and DSDV in detail. (10M)
OR
- 20 (a) Illustrate the use of WAP in Mobile networks. (6M)
(b) Show the architecture of WAP and its working. (4M)