

Code No: 117FN

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, December - 2019

MOBILE COMPUTING

(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART-A

(25 Marks)

- | | | |
|------|--|-----|
| 1.a) | What are the limitations of mobile devices? | [2] |
| b) | What is the importance of GSM? | [3] |
| c) | What is hidden and exposed terminal? | [2] |
| d) | Why should a mobile be registered under network? | [3] |
| e) | What are advantages of Mobile TCP? | [2] |
| f) | What is query processing? | [3] |
| g) | What is data dissemination? | [2] |
| h) | What is selective tuning? | [3] |
| i) | What is the importance of mobile agent? | [2] |
| j) | How does Linux help in mobile computing? | [3] |

PART-B

(50 Marks)

- | | | |
|-----|---|------|
| 2. | Draw and explain the functional architecture of GSM. | [10] |
| | OR | |
| 3. | How does a MTC (Mobile terminated call) function? Explain in detail with the help of a diagram. | [10] |
| 4. | Explain in detail about TDMA. | [10] |
| | OR | |
| 5. | Draw and explain the frame format of agent advertisement packet. | [10] |
| 6. | Explain about snooping TCP. | [10] |
| | OR | |
| 7. | Explain about hoarding techniques. | [10] |
| 8. | Into how many types are data delivery mechanism is classified? Explain any one in detail. | [10] |
| | OR | |
| 9. | What are the various broadcast models? Explain briefly. | [10] |
| 10. | Explain about DSR with a suitable example. | [10] |
| | OR | |
| 11. | Write and explain about WAP. | [10] |