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Reg No.: \_\_\_\_\_

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**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
**SIXTH SEMESTER B.TECH DEGREE(S) EXAMINATION, DECEMBER 2019**

**Course Code: CS364**

**Course Name: MOBILE COMPUTING**

Max. Marks: 100

Duration: 3 Hours

**PART A**

*Answer all questions, each carries 3 marks.*

Marks

- |   |  |     |
|---|--|-----|
| 1 | Write a short note on middleware and gateways                          | (3) |
| 2 | Give examples for six mobile computing applications.                   | (3) |
| 3 | What is a handoff? What are the reasons for a handoff to be conducted? | (3) |
| 4 | Explain satellite systems and list out its types                       | (3) |

**PART B**

*Answer any two full questions, each carries 9 marks.*

- |   |  |     |
|---|--|-----|
| 5 | a) What are the different tiers in mobile computing architecture?- Describe the functions of each tiers. | (9) |
| 6 | a) Describe about channel assignment strategy  | (9) |
| 7 | a) Describe GSM architecture with neat diagram   | (9) |

**PART C**

*Answer all questions, each carries 3 marks.*

- |    |  |     |
|----|--|-----|
| 8  | What are the main features of the WAP approach to transport connections?         | (3) |
| 9  | Give short notes on classification of routing algorithms and list out its types. | (3) |
| 10 | How can DHCP be used for mobility and support of mobile IP?                      | (3) |
| 11 | Explain MAC architecture with figure.  | (3) |

**PART D**

*Answer any two full questions, each carries 9 marks.*

- |    |   |     |
|----|---|-----|
| 12 | a) Explain about IEEE 802.11 protocol architecture                  | (9) |
| 13 | a) Explain snooping TCP. What are its advantages and disadvantages? | (9) |
| 14 | a) Describe in detail about mobile transport layer                  | (9) |

**PART E**

*Answer any four full questions, each carries 10 marks.*

- |    |   |      |
|----|---|------|
| 15 | Explain in detail, Security issues in mobile computing with examples. | (10) |
| 16 | Write short notes on<br>(a) Bluetooth (b) XML                         | (10) |
| 17 | Describe Networks LTE Architecture & Interface in detail.             | (10) |
| 18 | Explain the features of<br>(a) PalmOS (b) Android                     | (10) |
| 19 | a) What are the applications of 5G?                                   | (5)  |
|    | b) What is LiFi? What are its applications                            | (5)  |
| 20 | Explain in detail about protocol architecture of WAP.                 | (10) |