



P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Second Semester, M.Tech. - Computer Science and Engineering (MCSE)

Semester End Examination; May / June - 2018

Wireless Network and Mobile Computing

Time: 3 hrs

Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I

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| 1 a. | Discuss with examples, how existing applications can be made mobile. | 10 |
| | b. What is ICAP? Explain the typical data flow scenario in ICAP environment. | 10 |
| 2 a. | Define seamless communication. Describe the different aspects of seamless communication. | 10 |
| | b. Explain the design consideration for mobile computing. | 10 |

UNIT - II

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| 3 a. | State the different limitations of IPV6. | 8 |
| | b. Explain discovery, Registration and tunneling in the context of mobile IP. | 12 |
| 4 a. | What is cellular IP? Establish the relationship between mobile IP and cellular IP. | 10 |
| | b. Discuss the advantages & disadvantages of mobile IP. | 10 |

UNIT - III

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| 5 a. | With a neat diagram, describe the synchronization architecture of the server. | 10 |
| | b. List the pros and cons of smart client Architecture. | 10 |
| 6 a. | Explain implementation and testing phase using device emulators. | 10 |
| | b. Explain Symbian-OS architecture in detail along with features. | 10 |

UNIT - IV

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| 7 a. | Describe the benefits of thin client implementations. | 10 |
| | b. Distinguish between WML & HTML. | 10 |
| 8 a. | Discuss the limitations of wireless Application protocol. | 10 |
| | b. Explain the components of WAP architecture. | 10 |

UNIT - V

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| 9 a. | With a neat diagram, describe MIDP GUI classes. | 10 |
| | b. Write short notes on the following: | |
| | i) MID let life-cycle | 10 |
| | ii) MID let event handling | |
| 10 a. | Discuss the CLDC configuration addressing and non addressing areas in detail. | 10 |
| | b. Briefly explain the architecture of J2ME. | 10 |