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

(An Autonomous Institution affiliated to VTU, Belgaum)

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

Semester End Examination; Dec - 2016/Jan - 2017

Wireless and Mobile Communication

Time: 3 hrs

Max. Marks: 100

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

UNIT - I

- 1 a. Explain the 3-tier architecture for mobile computing with necessary diagrams. 10
- b. Briefly discuss the strength of SMS. 10
- 2 a. With a neat diagram explain the GPRS system architecture. 10
- b. Briefly discuss the applications of GPRS. 10

UNIT - II

- 3 a. Write the basic differences between mobile IPv4 and mobile IPv6. 10
- b. Discuss the tunneling with respect to mobile IP with appropriate diagrams. 10
- 4 a. Explain the mobile IP architecture. 10
- b. Describe the design constraints in applications for handled devices. 10

UNIT - III

- 5 a. Describe smart client architecture with diagram. 10
- b. With a neat diagram, explain the palm OS architecture. 10
- 6 a. Explain the concept of data synchronization and its architecture. 10
- b. Discuss the need of analysis and design phases. 10

UNIT - IV

- 7 a. Illustrate the processing a wireless request. 10
- b. Explain the WAP programming model. 10
- 8 a. Explain the 3-tier architecture for wireless internet architecture. 10
- b. Discuss on the following : 10
 - i) WML
 - ii) X HTML.

UNIT - V

- 9 a. What is CLDC? How do you program for CLDC? Explain in detail. 10
- b. Explain briefly the low level GUI components. 10
- 10 a. What is J2ME MIDP? Explain its various functional components in detail. 10
- b. List and explain the different security considerations in J2ME. Also explain the mechanisms through which they are handled. 10

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