

CBCS Scheme

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16SCS424

Fourth Semester M.Tech. Degree Examination, June/July 2018 Wireless Networks & Mobile Computing

Time: 3 hrs.

Max. Marks: 80

Note: Answer FIVE full questions, choosing one full question from each module.

Module-1

- 1 a. Explain with diagram the mobile computing architecture. (10 Marks)
b. Explain in brief, design consideration of mobile computing. (06 Marks)

OR

- 2 a. Explain with neat diagram PLMN interfaces. (08 Marks)
b. Explain with neat diagram, architecture of GPRS. (08 Marks)

Module-2

- 3 a. Explain the features of mobile phones and components of mobile phones. (10 Marks)
b. Explain details of PDA device. (06 Marks)

OR

- 4 a. Describe the mobile IP architecture. (10 Marks)
b. Explain in brief registration and tunneling in mobile IP. (06 Marks)

Module-3

- 5 a. Explain in detail data synchronization. (08 Marks)
b. Explain in detail messaging for server. (08 Marks)

OR

- 6 a. Explain the following: (08 Marks)
(i) Palm OS (ii) Symbian OS
b. Explain the following: (08 Marks)
(i) WinCE (ii) LINUX.

Module-4

- 7 a. Explain the wireless application protocol (WAP) layered architecture and protocol stack. (08 Marks)
b. Explain the following markup languages : (i) HDML (ii) WML. (08 Marks)

OR

- 8 Write a short note for following: (16 Marks)
(i) cHTML. (ii) HTML. (iii) XHTML. (iv) Voice XML.

Module-5

- 9 a. Explain the following: (08 Marks)
(i) CDL (ii) CLDL. (08 Marks)
b. Explain with a neat diagram, MIDlet life cycle.

OR

- 10 a. Explain the following: (10 Marks)
(ii) GUI elements in MIDP. (06 Marks)
(iii) The socket communication interfaces.
b. Explain the security consideration in MIDP.
