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Question Paper Code: 53P41

M.E. DEGREE EXAMINATION, NOV 2017

Third Semester

Computer Science and Engineering

15PCS303/15PNE301 - MOBILE AND PERVASIVE COMPUTING

(Regulation 2015)

(Common to Computer Science and Engineering (With Specialization in Networks))

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

- Which of the following are not involve in the mobile computing function?
(a) Service (b) Network (c) Gateway (d) Content
- 3G W-CDMA is also known as
(a) UMTS (b) DECT (c) DCS-1800 (d) ETACS
- _____ was promoted by big industry leader like IBM.
(a) Bluetooth (b) MANET (c) HomeRF (d) HyperLAN
- _____ is the most successful operating system for PDA's.
(a) QNX Neutrino (b) Palm OS (c) Windows CE (d) EPOC
- The session layer in WAP allows _____ types of connections.
(a) 2 (b) 3 (c) 8 (d) 4

PART - B (5 x 3 = 15 Marks)

- Describe the content adaption and transcoding.

7. What is meant by RFID?
8. What are the advantages and disadvantages of wireless LAN?
9. Write about human machine interface.
10. Define smart phone.

PART - C (5 x 16 = 80 Marks)

11. (a) Explain any six mobile computing applications. (16)

Or

- (b) What are the essential functional differences between 1st Generation, 2nd Generation and 3rd Generation of networks. (16)

12. (a) Describe 3G networks. How is a 3G network different from a 2G CDMA network. (16)

Or

- (b) Explain how it works in the CDMA technology. (16)

13. (a) Implement a program for palm OS which should create on application and a form. (16)

Or

- (b) What are the basic considerations one has to keep in mind while developing applications for Palm OS. (16)

14. (a) Explain any three application examples in pervasive computing. (16)

Or

- (b) Briefly explain about human machine interfaces device technology. (16)

15. (a) Explain the device architecture for Personal Digital Assistants. (16)

Or

- (b) Write the necessary WML code that accepts product name, rate, quantity and calculates the bill amount and displays it to the user. (16)