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**Question Paper Code: 53Q03**

M.E. DEGREE EXAMINATION, NOV 2018

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)

- Transaction processing is done through \_\_\_\_\_ application server. CO1- R  
(a) TN5250 (b) TN3270 (c) J2EE (d) J2EE
- IPv6 uses \_\_\_\_\_ bit address. CO2 -R  
(a) 16 (b) 32 (c) 128 (d) 256
- \_\_\_\_\_ is a switch in the SSJ network that can handle call setup. CO3- R  
(a) SSP (b) SCP (c) STD (d) CRP
- \_\_\_\_\_ is the most successful operating system for PDA's. CO4 -R  
(a) QNX Neutrino (b) Palm OS (c) Windows CE (d) EPOC
- \_\_\_\_\_ is the equivalent of java script or VB script in WAP. CO5- R  
(a) WML (b) WML Live (c) DHTML (d) XML

PART – B (5 x 3= 15 Marks)

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|-----|---|---------|
| 6.  | List out the characteristics for making legacy mobiles application. | CO1-U   |
| 7.  | Define Voice XML and explain the features that support Voice XML.   | CO2-U   |
| 8.  | Write a code to display the “HELLO WORLD” in symbian OS?            | CO3-U   |
| 9.  | Define Pervasive computing.   | CO4-Ana |
| 10. | List out the security issues in WAP.                                | CO5-U   |

PART – C (5 x 16= 80 Marks)

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|-----|---|----------|------|
| 11. | (a) Compare various middleware available in the application tier.   | CO1- U   | (16) |
|     | Or  |          |      |
|     | (b) Compare various characteristics features are available in developing mobile computing applications.             | CO1- U   | (16) |
| 12. | (a) Describe 3G networks. How is a 3G network different from a 2G CDMA network.                                     | CO2- U   | (16) |
|     | Or  |          |      |
|     | (b) Describe some differences FDMA, TDMA, CDMA and SDMA with their application areas and examples.                  | CO2- U   | (16) |
| 13. | (a) Organize the ideas and relate the connection between palm OS and symbian OS.                                    | CO3-Ana  | (16) |
|     | Or  |          |      |
|     | (b) Compare various highlights characteristics of 3G versus WiFi.   | CO3-Ana  | (16) |
| 14. | (a) To develop a Airline Ticket booking System , What type of information will be necessary in pervasive computing? | CO4 -App | (16) |
|     | Or  |          |      |
|     | (b) Design a Sales force Automation System application using pervasive computing.                                   | CO4 -App | (16) |
| 15. | (a) Discuss in detail pervasive application Architecture with neat sketch.  | CO5-U    | (16) |
|     | Or  |          |      |
|     | (b) Explain the device architecture for Personal Digital Assistants.  | CO5-U    | (16) |