Question Paper Code : 52392

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017

Seventh Semester

Computer Science and Engineering

CS2402 – MOBILE AND PERVASIVE COMPUTING

(Regulations 2008)

[Common to PTCS 2402 – Mobile and Pervasive Computing for B.E. (Part-Time)
Sixth Semester – CSE – Regulations 2009]

Time : Three Hours   Maximum : 100 Marks

Answer ALL questions

PART – A   (10×2=20 Marks)

1. What are cellular wireless networks ?

2. How frequency allocation is done in GSM network ?

3. What are the requirements of wireless LAN ?

4. How does the HiperLAN work ?

5. Mention the Mobile IP concept while roaming.

6. Why proactive routing is necessary ?

7. What is the principle behind the WAP working ?

8. What is the role of WML ?

9. Write down the various pervasive computing infrastructure applications.

10. How does PDAs work ?

PART – B   (5×16=80 Marks)

11. a) Explain in detail about the GSM architecture.

(OR)

b) Describe the various security approaches in mobile networks.

12. a) How does the Wireless PAN works ? Give an example.

(OR)

b) Describe in detail the WiMAX working mechanism.

13. a) Describe the working of DHCP with an example scenario.

(OR)

b) How does reactive routing protocols work in mobile networks.

14. a) Explain in detail the WWW programming model.

(OR)

b) Explain the elements used in WML scripts.

15. a) Illustrate the usage of human machine interfaces in pervasive computing.

(OR)

b) Describe the pervasive web application architecture with a neat diagram.

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