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**Question Paper Code : X 60395**

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020

Seventh Semester

Computer Science and Engineering

CS 2402/CS 72 – MOBILE AND PERVASIVE COMPUTING

(Regulations 2008)

(Common to PTCS 2402 – Mobile and Pervasive Computing for B.E. (Part-Time)  
Sixth Semester – Computer Science and Engineering – Regulations 2009)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. What are the ways to improve the efficiency of cellular networks ?
2. Why cellular systems require handover procedures ?
3. What are HIPERLANs ?
4. Distinguish between WiFi and WIMAX.
5. What are the disadvantages of I-TCP ?
6. What are the basic features of WML ?
7. Mention the features present in WSP/B in addition to that present in WSP.
8. State the applications of wireless telephony.
9. List application areas of pervasive computing.
10. What are the challenges in pervasive computing ?

PART – B

(5×16=80 Marks)

11. a) Discuss in detail on the CDMA technology with an example.

(OR)

- b) Explain the localization, calling and handover in GSM.



12. a) Write notes on the MAC management of the IEEE 802.11 protocol.

(OR)

b) Write notes on the channel access control sublayer.

13. a) i) Explain with an example and diagrammatic illustration the process of tunneling and encapsulation in mobile IP. (8)

ii) Explain with diagrammatic illustration client initialization via Dynamic Host Configuration Protocol (DHCP). (8)

(OR)

b) i) What are the benefits of location information for routing in ad-hoc networks, which problems arise ? Explain with examples. (8)

ii) Explain AODV (ad-hoc on-demand distance vector) routing with an example. (8)

14. a) What are the various flavors of TCP available ? Explain them in detail. (16)

(OR)

b) i) Explain WTA architecture. (8)

ii) Explain about WAP agent profile. (8)

15. a) Discuss briefly about Pervasive Web Application Architecture. (16)

(OR)

b) Discuss briefly how the access from Personal Digital Assistants is made through WAP. (16)

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