

*Total number of printed pages – 4*

B. Tech  
PEEC 5409

**Eighth Semester Examination – 2007**

**MOBILE COMPUTING**

**Full Marks – 70**

**Time : 3 Hours**

*Answer Question No. 1 which is compulsory  
and any **five** from the rest.*

*The figures in the right-hand margin indicate full  
marks for the questions.*

1. Answer the following questions : 2×10
- (a) What do you mean by WAP profile?
  - (b) What is wireless session protocol ?
  - (c) What is Piconet ?
  - (d) What is Fixed wireless access schemes ?

P.T.O.

- (e) What are the characteristics of blue tooth technology ?
- (f) What is Line-of-Sight Propagation ?
- (g) What is extendable hypertext markup Language ?
- (h) What is GPRS network ?
- (i) What is Mobile Radio Propagation Effects ?
- (j) Why the default port of Java Web server differs from the default port for any web server ?
2. (a) What is a simple WAP infrastructure ? Outline the features of basic elements of WAP profile. 5
- (b) What is the role of Enterprise Java Beans in creation of Web application ? 5
3. (a) What is the major difference between ASP and Servlet ? Explain the life cycle of servlet. 5

- (b) What are the basic components of WAP architecture ? 5
4. (a) What do you mean by model-view-controller pattern ? Discuss the frame work for a web application based on the MVC. 5
- (b) Discuss the basic components of GSM network architecture ? 5
5. (a) Give sender-side pseudo code for the 802.11 CSMA/CA protocol. 5
- (b) What is a packet radio services ? Describe the functioning of network nodes in GPRS network. 5
6. (a) What are the different Mobile Switching Center (MSC) Databases ? How they are used in GSM network ? 5
- (b) What is Wireless Local Loop architecture ? What are the Advantages of WLL over Wired approach ? 5
7. (a) Outline the different components for secure pervasive architecture. 5

(b) What are the advantages and disadvantages of CDMA Cellular Network? 5

8. Write short notes on the following: 2.5 x 4

(a) Satellite-based networks

(b) RAKE receiver

(c) LOS Wireless Transmission Impairments

(d) Base Station Subsystem.

IWL