Q.P. Code : **2376**

(3 Hours) [Total Marks : 100

N.B. : (1) Question No. **1** is **compulsory**.
(2) Solve any **four** questions from remaining **six** questions.
(3) Assume suitable **data** if **necessary** & state it **clearly**.

1. (a) What is frequencey reuse concept ? 5
   (b) List and explain main benefits of Spread Spectrum System. 5
   (c) Explain GSM teleservices & bearer services. 5
   (d) What is meant by WATM ? 5

2. (a) Draw and neat diagram of GSM protocol architecture & explain in detail. 10
   (b) Describe threats & security issues in Mobile Computing. 10

3. (a) Discuss the IP reverse tunneling. 10
   (b) Name the major differences between Adhoc Networks & other networks. 10

4. (a) What is Mobile TCP ? Explain it in detail. 10
   (b) Explain in the operation of CDMA with timing diagram. 10

5. (a) Draw a neat diagram of WAP architecture & explain in brief. 10
   (b) Describe the GPRS system architechture in detail. 10

6. (a) What is Hand-off ? List & explain various types of Hand-offs in cellular 10
      system .
   (b) Compare between GSM & CDMA. 10

7. Write short notes on (any two) 20
   (a) Mobile satellite systems
   (b) Wireless sensor networks
   (c) UMTS