

QP Code : 26737

(3 Hours)

[Total Marks: 80]

- N.B:** (1) Question No.1 is compulsory.  
(2) Answer any four from remaining six questions.  
(3) Assumptions should be made whenever required and should be clearly stated  
(4) Answers to sub questions should be answered together  
(5) Illustrate answers with diagrams whenever necessary

- Q.1 (a) Explain GSM architecture In detail. 10  
(b) What is frequency hopping spread spectrum? List the benefits of using it. 10
- Q.2 (a) What are piconet and scatternet? Explain the various protocols supported by Bluetooth protocol architecture. 7  
(b) Explain the architecture and components of GPRS. 8
- Q.3 (a) Discuss WAP protocol architecture in detail. 7  
(b) Explain the concept behind Dynamic Source Routing (DSR). How it is different from Destination Sequenced Distance Vector (DSDV)? 8
- Q.4 (a) What are Convolution codes? Draw an encoder with value  $k=1$ ,  $n=2$ ,  $K=3$ . Give example of its usage. 7  
(b) Explain Indirect TCP and Snooping TCP. 8
- Q.5 (a) Explain the operation of Mobile IP. 7  
(b) Explain the generation of cellular networks. 8
- Q.6 (a) Describe WAP Programming Model. 7  
(b) Describe IEEE 802.11 Architecture. 8
- Q.7 Write short notes on (Any three) 15  
(a) WML and WML Script  
(b) Antennas  
(c) Fading  
(d) WIMAX

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