QP Code: 17955

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Total Marks: 80

N.	<ul> <li>: (1) Question No. 1 is compulsory.</li> <li>(2) Attempt any four from remaining six questions.</li> <li>(3) Assumptions should be made whenever required and should be clearly stated</li> <li>(4) Answers to sub questions should be answered together</li> <li>(5) Illustrate answers with diagrams wherever necessary</li> </ul>	
	<ul><li>(a) Explain the process of call set up and mobility management in GSM. What are various roaming scenarios in GSM?</li><li>(b) How is spread spectrum technique useful in Wireless Communication?</li></ul>	10
2.	<ul> <li>Explain FHSS and DSSS.</li> <li>(a) What are piconet and scatternet? Explain various protocols supported by bluetooth protocol architecture.</li> <li>(b) What are Convolution codes? Draw an encoder with value k=1, n=2, K=3. Encode the bit sequence 1100001 using a (2, 1, 3) encoder?</li> </ul>	7
3.	<ul><li>(a) What is an antenna? What are different types of antenna? Explain the term free space loss.</li><li>(b) Explain the concept behind Dynamic Source Routing (DSR). How it is different from Destination Sequenced Distance Vector (DSDV)?</li></ul>	7
4.	<ul> <li>(a) Describe WAP Programming Modei. Explain the role of WAP gateway and WAP user agent profile.</li> <li>(b) Explain following terms with respect to cellular networks: <ul> <li>(i) Handoff</li> <li>(ii) Frequency Reuse</li> </ul> </li> </ul>	<b>8</b>
5.	<ul><li>(a) Explain the operation of Mobile IP.</li><li>(b) Explain Selective TCP and Snooping TCP with their advantages and disadvantages.</li></ul>	<b>7</b> <b>8</b>
6.	<ul><li>(a) Explain the role of GPRS support nodes in GPRS architecture.</li><li>(b) Describe WIMAX network reference model along with its features.</li></ul>	8
	Write short notes on: (Any three)  (a) IEEE 802.11 for WiFi access  (b) Mobile Number Portability  (c) VoiP  (d) 1G, 2G, 3G  (e) iMode	15
		99