

**Code: 9A04806****R09**

B.Tech IV Year II Semester (R09) Regular &amp; Supplementary Examinations April 2016

**WIRELESS COMMUNICATIONS & NETWORKS**

(Common to ECE and ECC)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Explain the TDMA frame structure and frequency Hopped Multiple Access (FHMA).  
(b) If a normal GSM time slot consists of six trailing bits, 8.25 Guard bits, 26 training bits and two traffic burst of 58 bits of data, find the frame frequency.
- 2 (a) Write the differences between wireless and fixed telephone networks.  
(b) Explain the basic block diagram of cellular system in detail.
- 3 (a) Explain about the Broadband ISDN, advanced radio data information system and RAM mobile data.  
(b) Discuss about signaling traffic in SS7 and its services.
- 4 (a) Explain about the wireless application protocol programming architecture and WAP example network.  
(b) Discuss about WML scripts and WAP service.
- 5 (a) Briefly explain about the protocol entities for the IEEE 802.11 standard.  
(b) Discuss about spread spectrum LANs.
- 6 (a) Discuss about the link manager specification.  
(b) Explain the WLL technology.
- 7 (a) Write about short messaging service in GSM.  
(b) Discuss about the mobile application protocol.
- 8 (a) Write about the wireless LAN requirements.  
(b) Discuss about HIPERLAN and Adhoc network.

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