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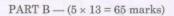
Reg. No.: Question Paper Code: 50460 B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023. Sixth Semester Electronics and Communication Engineering EC 8004 - WIRELESS NETWORKS (Regulations 2017) Time: Three hours Maximum: 100 marks Answer ALL questions. PART A — $(10 \times 2 = 20 \text{ marks})$ Write the significance of the special control packets in IEEE 802.11 Determine the need of 250 ohms resistor in HART protoco How does Foreign Agent help mobile network during its network? Which layer is CoAP in IoT? What are the elements of UTRAN architecture? What are the enhancements over existing IS - 95 / J - STD - 008 wireless system? Name the generic approaches of internetworking. Define the term multipoint in Local Multipoint Distribution Service. Mention the features and challenges of 4G. 10. State the issues in terminal mobility.

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 (a) Present the protocol architecture and categorize the data transfer types of Wireless Universal Serial Bus (WUSB).

Or

- (b) Illustrate the four different network types and layered Model of BRAN wireless access network.
- 12. (a) What is the purpose of Session Initiation Protocol and explain how it works in a VoIP call?

Or

- (b) Evaluate the process of route establishment and route maintenance in Destination Sequence Distance Vector Routing protocol for adhoc networks.
- 13. (a) Describe the following CDMA 2000 Radio and Network components platforms: (i) Packet Data Serving Node (PDSN), (ii) Home Location Register (HLR), (iii) Base Transceiver Station (BTS). (5+4+4)

 Or

 (b) Draw the architecture of Generic TD SCDMA network and explain.
- (a) Outline the WLAN adaptation function (WAF) in tight coupling architecture and explain with an appropriate diagram.

Or

- (b) (i) Illustrate the MMDS system for digital video and wireless internet.
 - (ii) Summarize the functional operations of MMDS. (5)
- (a) Explain the structure and compare the different smart antenna techniques used for wireless communication systems.

Or

(b) Determine the multicarrier modulation scheme adopted in 4G system, explain the working procedure of the scheme with necessary diagram.

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