Paper / Subject Code: 52901 / Wireless Networks

B.E. SEM VIII / ELTL / NOV 2018 / 20.11.2018

ii) Solve any three from the remaining five questions

1a Discuss the Advanced Antenna systems used in HSPA and LTE.

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Duration-3hrs Marks -80 N.B i) Question no.1 is compulsory



b	Draw and explain with a	neat diagram the variou	us components of a sensor node.	5

C What are the different Network Topologies supported by Zigbee?

d Explain the 'Zone planning' concept for the Indoor radio planning.

2a What are the different requirements to plan a good Link Budget for Wireless Networks? 10

b Explain 'hidden node' and 'exposed node' problems in WLANs.

3a What is UMTS? List important features of UMTS air interface.

b Explain various Bluetooth connection establishment states .Draw a complete flow diagram. 10

4a Explain Middleware architecture for WSNs.

b Discuss Wimax in detail and compare its performance with Wifi . 10

5a Discuss the various routing challenges and design issues in WSNs.

b Why Network Management Design is a critical issue in WSN? Justify. 10

6a What are the different types of handovers in GSM?

b How does a typical RFID system work? Discuss its components and list its applications.
