

B3.E8-R5 : WIRELESS & MOBILE COMMUNICATION

NOTE :

1. Answer question 1 and any FOUR from questions 2 to 7.
2. Parts of the same question should be answered together and in the same sequence.

Total Time : 3 Hours

Total Marks : 100

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1. (a) What are the various units of RF measurements ?
(b) Explain Analog Modulation Technique.
(c) What is cell splitting ?
(d) Explain 6G in brief.
(e) Write in brief about Wi-Fi Security standards.
(f) Write short note on WLAN Bridge.
(g) Explain wireless sensor network. (7x4)

 2. (a) Write in detail, description about IEEE 802.11 architecture.
(b) Explain the power management in IEEE 802.11.
(c) Describe the mechanism of roaming in IEEE 802.11 (6+6+6)

 3. (a) What is capacity allocation ? Explain the various methods involved in it.
(b) Explain the GPRS architecture in detail.
(c) Draw architecture for GSM signalling protocol. (6+6+6)

 4. (a) Discuss in detail about wireless communication system.
(b) Discuss the different types of spread spectrum.
(c) Differentiate between Analog and Digital Modulation Techniques. (8+6+4)

 5. (a) Explain in brief about the various routing protocols for WSN.
(b) What is WiMax ? Also discuss about the WSN Topologies.
(c) Differentiate WSN routing with adhoc routing. (7+6+5)

 6. (a) Explain frequency hopping spread spectrum with suitable example.
(b) Differentiate between hard and soft handoff.
(c) What is cell sectoring ? What are the reasons for choosing hexagonal cells ? (6+6+6)

 7. (a) What are the advantages and disadvantages of Wireless adhoc network ?
(b) Explain the architecture of Bluetooth.
(c) Differentiate between VRAN and ORAN. (9+5+4)

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