

INST - Wireless commⁿ

QP Code : 6166

(3 hours)

[Total Marks: - 80

- N. B.** (1) Question No. 1 is **Compulsory**.
(2) Answer any **three** out of remaining **five** questions.
(3) Assumptions made should be **clearly** stated.
(4) **Figures** to the **right** indicate **full** marks.

- Q.1 Attempt any four: - (20)
- Explain types of services available in wireless communication
 - Explain WAP Advantage and Disadvantages.
 - Give Introduction to 3G & 4G.
 - Give importance of WirelessHART adaptor.
 - Explain FDMA principle
- Q.2 a) Explain Bandwidth concept, Multipath propagation, spectrum limitations, Present scenario in Wireless Communication Systems (10)
- b) What is Peer-to-Peer Communication with WirelessHART? Explain using 2 different Scenario. (10)
- Q.3 a) Explain Quadrature Phase shift keying, and Differential quadrature phase shift keying (10)
- b) Explain Spread spectrum systems and Effects of multipath propagation on CDMA, OFDM (10)
- Q.4 a) Explain WAP Architecture in detail (10)
- b) Explain Control with WirelessHART with respect to:- (10)
- Sampling Interval
 - Jitter and Latency Concept
- Q.5 a) Explain in detail Bluetooth Protocol Stack (10)
- b) Explain System Redundancy with WirelessHART (10)
- Q.6 Write short note on :- (Any four) (20)
- Ultra Wide Band
 - imode versus WAP
 - Gaussian minimum shift keying
 - Difference between WAP & WWW
 - Cordless telephony

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