



(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.

1. Answer any **four** :- 20  
(a) What is Ad hoc n/w? Give example.  
(b) Explain Zigbee  
(c) Give Difference between WAP & WWW  
(d) Explain FDMA principle  
(e) Give importance of Wireless HART adaptor.
2. (a) Explain Quadrature Phase shift keying, and Differential quadrature phase shift keying 10  
(b) Explain Spread spectrum systems and Effects of multi path propagation on CDMA, OFDM 10
3. (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
4. Explanation of any **two** concepts with following topics 20  
(a) Introduction,  
(b) Connection process, bonding and pairing  
(c) Protocol and architecture  
(d) Network topology
5. (a) Explain WAP Architecture in detail 10  
(b) Explain Control with *WirelessHART* with respect to:- 10  
(i) Sampling Interval  
(ii) Jitter and Latency Concept
6. Write short notes on (any **four**) 20  
(a) Types of services available in wireless communication Cordless telephony  
(b) imode versus WAP  
(c) Introduction to 3G & 4G.  
(d) Draw waveforms for the series 10011101 using OQPSK.  
(e) Difference between WAP & WWW

COURSE : B.E. (Sem VII) (CBSGS) (All Branch)

QP Code: 812701

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**Q.4 a) Explanation of any 2 concepts of Wireless Communication or Zigbee with following topics**

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