

- N.B: 1. Question 1 is compulsory based on entire syllabus.  
2. Solve any 3 main questions out of remaining.

1. Answer **any four** **20**
  - a) Compare TDMA CDMA
  - b) What is the multipath propagation? Draw diagram and explain
  - c) What is WiFi? Explain.
  - d) What is the work of security manager in W-HART?
  - e) Frequency reuse pattern 7
  
2. Answer the following
  - a) Compare i-mode versus WAP. **10**
  - b) What is WSN? Explain in detail. What are the applications of WSN. **10**
  
3. Answer the following
  - a) Draw and explain block diagram (showing all components) of W-HART. **10**
  - b) What is D-QPSK? Draw the pulse stream diagram for 11001010. **10**
  
4. Answer the following
  - a) Explain minimum phase shift keying MSK. **10**
  - b) What is FHSS? Explain. **10**
  
5. Answer the following
  - a) Explain Bluetooth and its architecture. **10**
  - b) Draw the WAP programming model and explain. **10**
  
6. Write short notes on (**any four**) **20**
  - a) How do paging system work?
  - b) Present scenario in wireless communication
  - c) OFDM technique
  - d) System redundancy in W-HART
  - e) Compare 1G, 2G, 3G, 4G

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