

[Time: 3 Hours]

[Marks: 80]

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