

24442

B. Tech. 7th Semester (ECE) F-Scheme

Examination, December-2017

DATA COMMUNICATION

Paper-ECE-407-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : *Question No. 1 is compulsory. Attempt any one from each section.*

1. (a) Differentiate between ASK and PSK ? 5
- (b) What do you mean by Combo chips ? 5
- (c) What are CODECS ? 5
- (d) Explain BER. 5

Section-A

2. (a) Draw and explain the block diagram of clock recovery in FSK modulation system. 10
- (b) What do you mean by DPSK ? Explain DPSK transmitter and receiver. 10
3. (a) Draw and explain the basic diagram of digital communication system. 10
- (b) What do you mean by probability of error ? Explain. 10

Section-B

4. Explain Asynchronous and synchronous modems in detail. 20
5. (a) Explain the distance direct dialing network. 15
- (b) What do you mean by modem synchronization ? 5

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Section-C

6. Explain TCP/IP model with neat and clean diagram. 20
7. Explain OSI reference model with its layers in detail. 20

Section-D

8. (a) What do you mean by line encoding ? Explain different line encoding techniques in detail. 10
- (b) What do you mean by private telephone network ? Explain. 10
9. Explain the following : 20
- (i) Trellis Encoding
- (ii) Domain Name Service.