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Roll No

IT-5005(3)-CBGS

B.E. V Semester

Examination, June 2020

Choice Based Grading System (CBGS)

Data Communication

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Describe the baseband and broad band transmission.
b) What does the Shannon capacity have to do with communication? Discuss about throughput, delay and jitter in data communication.
2. a) What is Data transmission? Explain briefly parallel and serial data transmission.
b) What is bandwidth-delay product? Explain in detail. What is noise?
3. a) What is Line configuration? What are the advantages of a multipoint connection over a point to point connection?
b) What are the differences between Plesiochronous Digital Hierarchy (PDH) and Synchronous Digital Hierarchy (SDH)?
4. a) What do you understand by Multiplexing and describe the frequency division multiplexing?
b) Explain telephone network topology and signaling-SS7 for data communication.

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5. a) Write briefly :
 - i) ADSL
 - ii) SDSL
 - iii) VDSL
- b) What is the role of ISDN as Remote Digital transmission carrier?

6. a) What is Switching? Differentiate between circuit, packet and hybrid switching.
- b) How is the simple parity check related to the two dimensional parity check? Explain with example.

7. a) Define cable standards? Explain cat 5 cable with example.
- b) What is Network Interface card? Explain the working of NIC.

8. Write short notes :
 - i) Microwave Transmission
 - ii) RJ - 45 connection
 - iii) Radio waves
 - iv) Band

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