

Code: 8923

OCT 2017  
Third Year B.Sc. (I.T.)

Paper No. 301: Data Communication and Networking

Time: 3 Hours

8923

Total Marks: 100

- Q.1 (a) What is computer network? Explain its types in detail. [10]  
(b) Write a note on multiplexing. [10]

OR

- Q.1 (a) Explain analog and digital data with diagram [10]  
(b) Explain VHF and infrared in detail [10]

- Q.2 (a) Explain error control and flow control in detail. [10]  
(b) What is network protocol? Explain simplex stop and wait protocol. [10]

OR

- Q.2 (a) Explain optical source and light detector. [10]  
(b) Write a note on satellite communication. [10]

- Q.3 (a) Explain digital telephony. [10]  
(b) Write a note on fax. [10]

OR

- Q.3 (a) Explain shortest path routing. [10]  
(b) Explain broadcast routing and isdn [10]

- Q.4 (a) What is network topology? Explain its all types. [10]  
(b) Write a note on OSI model. [10]

OR

- Q.4 (a) What is ethernet? Explain its functionality in detail. [10]  
(b) Explain blue tooth and IP addressing. [10]

- Q.5 (a) Explain ATM system and TCP/IP. [10]  
(b) Explain sliding window protocol. [10]

OR

- Q.5 (a) Write a note on DNS. [10]  
(b) Explain e-mail and VPN. [10]

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