

Roll No.

97679

BCA 5th Semester (Re-Appear)

Examination – October, 2020

DATA COMMUNICATION AND NETWORKING

Paper : BCA-303

Time : 1.45 hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *three* questions. All questions carry equal marks.

1. Explain the following :
 - (a) X.25
 - (b) DSL Service
 - (c) Gateways
 - (d) Virtual Circuits and Datagrams
2. Define Computer Network. Explain types of Computer Networks and their topologies.
3. Describe ISO-OSI reference model in detail with proper diagram.
4. Explain the following :
 - (a) Asynchronous and Synchronous Transmission
 - (b) Maximum Data Rate of Channel

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5. Explain the following :
 - (a) Dialup Networking
 - (b) Digital Carrier Systems
 6. Define Data Link layer and explain the following :
 - (a) Error Detection and Correction
 - (b) Flow control
 7. Explain in detail about Network Hardware components.
 8. Describe congestion and congestion control algorithms in detail.
 9. Describe the following :
 - (a) Authentication
 - (b) Security Threats
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