

**B.C.A. (Part-III) Examination, 2017**

**Networking Technologies (Paper - 333)**

[Time: Three Hours]

[Maximum Marks: 100]

**Part – I**

1. Attempt all questions. Each question carries 2 marks.
  - a) What is Line Configuration?
  - b) Define Network.
  - c) What is Bandwidth?
  - d) What is protocol?
  - e) What is Telnet?
  - f) What is MIME?
  - g) What is Multiplexing?
  - h) What do you mean by SS7?
  - i) What is data communication?
  - j) What is microwave?

**Part – II**

Each question is of 4 marks

2. Explain the various transmission mode.
3. Describing Routing Algorithms.
4. Define TCP/IP protocol.
5. What is time division switching? Explain.
6. List the various layers used in SONET.

**Part – III**

7. What is Topology? Explain various topologies use in networking.

OR

What are the difference between LAN, MAN, WAN and Internet? Explain.

8. Write short notes on:
  - a) Error detection and correction.
  - b) Transmission Media.

OR

What is OSI model? Explain the different layers of OSI Model.

9. Illustrate the features of DHCP and explain TCP messaging and signaling.

OR

Write short notes on:

- a) DNS
  - b) UDP
  - c) IP Multicasting.
10. Explain the packet Switching? Also define Space Division Switching.


OR

Differentiate between Asynchronous and Synchronous transmission.

11. What is Data Communication System/ Explain its characteristics and components.

OR

- a) Describe Geo-synchronous Satellites.\
- b) Explain Optical Fiber Communication.

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