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D-3850

B. C. A. (Part II) EXAMINATION, 2020

(New Course)

Paper Fourth

COMPUTER NETWORKS

(BCA-204)

Time: Three Hours] [Maximum Marks: 80

Note: Attempt any *two* parts from each Unit. All questions carry equal marks.

Unit—I

- 1. (a) Explain data communication and requirement of networking.
 - (b) What do you mean by Topology ? Explain various topologies with suitable diagram.
 - (c) Explain the following:
 - (i) Internetworks
 - (ii) Standard Organization

Unit—II

- 2. (a) What is benefit of digital communication over analog communication?
 - (b) Explain DTE-DCE interface with example.

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(c) What is Modem? Explain their types. Why are modem standards necessary?

Unit—III

- 3. (a) What do you understand by ISO? Write function of layers of OSI reference model.
 - (b) What are the various jobs of transport layer? Explain QoS (Quality of Service) of transport layer.
 - (c) What is the benefit of layered architecture?

Unit—IV

- 4. (a) What is IP address? Explain the different classes of IP addressing.
 - (b) Differentiate OSI reference model with TCP/IP model.
 - (c) Explain the following:
 - (i) WWW
 - (ii) HTTP

Unit-V

- 5. (a) What do you understand by network security and its importance.
 - (b) Explain Cryptography. What are symmetric and asymmetric key systems?
 - (c) Explain the following:
 - (i) RSA
 - (ii) Digital Signature

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