19. Elucidate the principles of any two routing algorithms.

20. Explain the following

(a) Services Provided to the Upper Layers.

(b) Architecture and services of electronic mail.

S.No. 5201

RCCS 10 CA 9/
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(For candidates admitted from 2010 to 2015 batch)

B.C.A./B.Sc. DEGREE EXAMINATION, APRIL 2022.

Part III — Computer Applications/Computer Science — Major

COMPUTER NETWORKS

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20)

Answer ALL questions.

1. Define Local Area Network

2. What is meant by Point-to-Point links?

3. Define Twisted pair cable.

4. What is wireless transmission?

5. What is meant by Hamming distance?

6. What are fields in the frame header?

7. What is session based routing?

8. What is meant by Quality of Service?

9. Write any two functions provided by the application layer.

10. What is meant by URL?

SECTION B — (5 × 5 = 25)

Answer ALL questions, choosing either (a) or (b).

11. (a) Discuss the uses of computer network.

Or

(b) Compare the OSI and TCP/IP Reference Model.

12. (a) Write short notes on Radio Transmission and Microwave Transmission.

Or

(b) Explain the structure of the telephone system.

13. (a) Discuss briefly about the Services Provided to the Network Layer by data link layer.

Or

(b) Explain basic concept of Sliding Window Protocols.

14. (a) What kind of services the network layer provides to the transport layer? Explain.

Or

(b) Discuss the general principles of congestion control.

15. (a) Discuss the primitives for a simple transport services in brief.

Or

(b) Write short notes on domain name system.

SECTION C — (3 × 10 = 30)

Answer any THREE questions.

16. Discuss briefly the hardware and software requirements of a networks.

17. Explain any two guided and unguided transmission medium.

18. Discuss the elementary data link protocol in detail.