

18. Explain the various process involved in Pulse Coded Modulation.
 19. Discuss the various categories involved in multiplexing.
 20. Discuss briefly about virtual circuit network.
-

S.No. 5174

RCCSCA 8

(For candidates admitted from 2008–2009 Batch)

B.C.A. DEGREE EXAMINATION, APRIL 2022

Part III – Computer Applications – Major

DATA COMMUNICATION NETWORKS

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20)

Answer ALL questions.

1. Mention any for Network Topologies.
2. Expand DNS and HTTP.
3. What is Protocol? Give Example.
4. Define Encoding and Decoding.
5. Define Frequency Modulation.
6. Define Composite Signal.
7. What do you mean by *Nyquist Signaling rate*.

8. Define Bit Rate and Baud Rate.
9. Define Datagram and Packets.
10. What is DSL?

PART B — ($5 \times 5 = 25$)

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

11. (a) Explain the Network Criteria.

Or

- (b) Write short notes on categories of Network.

12. (a) Explain the role of following network devices.
 - (i) Hub
 - (ii) Switch
 - (iii) Router
 - (iv) Bridge
 - (v) Repeater

Or

- (b) Write short notes on Digital Signals.

13. (a) Write short notes on PCM.

Or

- (b) Write short notes on Parallel Transmission.

14. (a) Write short notes on Spread Spectrum.

Or

- (b) What is Guided Media? Explain.

15. (a) Explain Circuit Switching.

Or

- (b) Write short notes on Telephone Networks.

PART C — ($3 \times 10 = 30$)

Answer any THREE questions.

16. Explain OSI reference model with Neat Diagram. Mention the function of each layer.
17. Explain briefly about the factors involved in influencing Performance.