S.No. 1688 **08UCS10**

(For the candidates admitted from 2008-2009 onwards)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

Sixth Semester

Computer Science

COMPUTER NETWORKS

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define broadcasting.

2. What is protocol?

3. Define Frequency.

4. Define Signal to Noise Ratio.

5. What is contention system?

6. Define point to point protocol.

7. What is routing algorithm?

8. Define congestion.

9. What is DNS?

10. What is cryptography?

PART B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) What are the design issues for the layers?

Or

(b) Explain the protocol hierarchies.

12. (a) Explain about radio transmission and micro wave transmission.

Or

(b) Write a note on geostationary satellites.

13. (a) Write a note on error correcting codes.

Or

(b) What are services provided to network layer from data link layer?

14. (a) List out the congestion prevention policies.

Or

(b) Compare the virtual circuit and datagram networks.

15. (a) Explain the various services of Email.

Or

(b) Write a note on digital signatures.

PART C — (3 × 10 = 30 marks)

Answer any THREE out of Five questions.

16. Describe TCP/IP reference model with neat diagram.

17. Explain in brief about various transmission media.

18. Explain one bit sliding window protocol.

19. Explain shortest path algorithm and distance vector algorithm.

20. Explain about the secret-key algorithm.

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