

12. (a) With the header format explain the architecture to Token Ring and its Ring maintenance.

Or

- (b) Explain the IEEE 802-3 Protocol.

13. (a) What are Bridges? Explain its types.

Or

- (b) Explain the count to infinite problem and how it is overcome by link state routing algorithm.

14. (a) Draw the TCP header format and explain its protocol.

Or

- (b) What is CSMA-CA? Explain any three of its algorithm.

15. (a) Explain the DES Algorithm.

Or

- (b) Write short notes on :

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| (i) DNS | (4) |
| (ii) SMTP | (4) |
| (iii) HTTP | (4) |
| (iv) MIME. | (4) |