

**857****October 2017**

Time – Three hours  
(Maximum Marks: 75)

- [N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory. Answer any FOUR questions from the remaining in each PART – A and PART – B.  
(2) Answer division (a) or division (b) of each question in PART-C.  
(3) Each question carries 2 marks in PART – A, 3 marks in Part – B and 10 marks in PART – C.]

PART – A

1. Write any two advantages of bus topology.
2. Define protocols.
3. What are BRI and PRI?
4. What is dotted decimal notation?
5. List down the layers of TCP/IP suit.
6. What is digest function?
7. What is software firewall? Give examples.
8. Define honey pots.

PART – B

9. What are the components of data communication systems?
10. Draw the FDDI frame format.
11. Explain packet switching.
12. What is sub-netting?
13. What are the principles of security?
14. Write a note on digital signature.
15. Define WEP and write its features.
16. Write about infrared unguided mode of propagation.

PART – C

17. (a) Explain star topology with diagram.

(Or)

(b) Categorize networks based on geographical distance and explain.

18. (a) Explain OSI model with a neat diagram.

(Or)

(b) Explain the types of Ethernet.

19. (a) (i) Explain connection oriented and connectionless services.  
(ii) Explain: (a)ARP (b)RARP.

(Or)

(b) Describe IP addressing.

20. (a) What are attacks? Explain the types of firewalls.

(Or)

(b) (i) Write about Kerberos.  
(ii) What is IP security? Explain.

21. (a) (i) Explain any two types of firewalls.  
(ii) Write briefly about eaves dropping.

(Or)

(b) Describe the hacking techniques.

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