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Register No.:	

October 2018

<u>Time - Three hours</u> (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. Define topology.
- 2. What is LOS?
- 3. What is MAC?
- 4. What is message switching?
- 5. Define subnetting.
- 6. Define cryptography.
- 7. What do you mean by E-Mail security?
- 8. Mention the types of honey pots based on design criteria.

PART - B

- 9. Discuss about point to point and multipoint connections.
- 10. Explain the functions of gateways.
- 11. Draw the FDDI frame format.
- 12. Explain connection oriented and connection less service.
- 13. Write short notes on Eaves dropping.
- 14. Write short notes on digest function.
- Define application gateway.
- 16. Write a short note on DNS.

[Turn over....

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PART - C

17. (a) (i) Define data flow. Explain the different types of data flow methods.

(ii) Explain client server and peer to peer networks.

(Or)

- (b) Briefly explain about the features and concepts of network devices.
- 18. (a) Explain in detail about OSI reference model with its connectivity diagram. State the functions of all layers.

(Or)

- (b) (i) Explain the concept and PDU format of CSMA/CD.
 - (ii) Explain in detail about the concepts and services of ISDN.
- 19. (a) (i) Explain the functions of transport layer protocol with a neat diagram.
 - (ii) Explain: (1)ARP (2)RARP

(Or)

- (b) (i) Explain dotted decimal notation with an example.
 - (ii) Explain the following application layer protocols: (1)SMTP (2)HTTP.
- 20. (a) (i) What is network security? Explain the principles of security.
 - (ii) Draw the IP security protocol structure and explain its architecture.

(Or)

- (b) Explain DES algorithm in detail.
- 21. (a) (i) What is a fire wall? Explain any two types of firewall.
 - (ii) Explain how intruders are classified.

(Or)

(b) Write shorts note on :(1)Transmission security (2)Authentication (3)WLAN detection.

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