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Register No.:
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## **April 2019**

<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

- Define intranet and extranet.
- 2. What is VSAT?
- 3. What is MAC?
- 4. Define socket.
- 5. What is VLSM technique?
- Define cryptography.
- 7. What do you mean by E-Mail security?
- 8. Mention the limitations of firewall.

## PART - B

- 9. Discuss about the different types of data flow.
- 10. Give a brief note on the features and concepts of switches.
- 11. Write short notes about the types of Ethernet.
- 12. Draw a diagram to compare OSI model and TCP/IP model.
- 13. Write short notes on how to detect WLAN.
- 14. Give a brief note about the different types of attacks.
- Define application gateway.
- 16. Describe about sub-netting.

[Turn over....

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## PART - C

17. (a) (i) What are the components of DCS? Explain DCS with a neat diagram.

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

(Or)

- (b) Discuss briefly about the different unguided transmission media with neat sketch.
- 18. (a) (i) Draw the frame format of FDDI and explain.
  - (ii) Write short note about the concepts and services of ISDN.

(Or)

- (b) Briefly explain about OSI reference model with its connectivity diagram. State the functions of all layers.
- 19. (a) (i) Explain the functions of transport layer protocol with a neat diagram.
  - (ii) Explain (1)RARP (2)ARP.

(Or)

- (b) (i) Explain connection oriented and connectionless services.
  - (ii) Explain the following application layer protocols: (1)TELNET (2)FTP.
- 20. (a) (i) Write short notes on digest function.
  - (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 briefly about the different historical hacking techniques.

(Or)

(b) What is meant by intruder detection? Briefly explain about the different type of intruder detection systems.

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