983	Register No.:	
	register 140	

April 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 data communication. List the components of data communication system.
- 2. What is VSAT?
- 3. What are the standards of data communication system?
- 4. Define socket.
- 5. Define supernetting.
- 6. Define digital signature.
- 7. What is a spam?
- 8. What is authentication?

PART - B

- 9. Give a brief note on the features and concepts of switches.
- 10. What is gigabit Ethernet?
- 11. Explain the services of ISDN.
- 12. Draw a diagram to compare OSI model and TCP/IP model.
- 13. Write short notes on passive and active attacks.
- 14. What is Kerberos?
- 15. Mention the limitations of firewall.
- 16. Define WEP and write its features.

[Turn over....

185/690-1

PART - C

 (a) Classify the different types of networks based on geographical distance and briefly explain.

(Or)

- (b) (i) With a neat diagram explain star topology stating its advantages and disadvantages.
 - (ii) Briefly explain the structure of a coaxial cable with neat diagram.
- 18. (a) Compare the protocols 802.3, 802.4 and 802.5.

(Or)

- (b) (i) Draw the frame format of FDDI and explain.
 - (ii) Define switching. Explain any two types of network switching in detail.
- (a) (i) With a neat diagram explain the functions of transport layer protocol.
 - (ii) Write short notes on: (1)IGMP (2)ICMP.

(Or)

- (b) (i) Explain connection oriented and connectionless services.
 - (ii) Explain the following application layer protocols:

(1) FTP (2) POP

20. (a) Explain AES algorithm in detail.

(Or)

- (b) (i) Draw the IP security protocol structure and explain its architecture.
 - (ii) Write short notes on digest function.
- 21. (a) Define RAID. Briefly explain about the different RAID levels with neat diagrams.

(Or)

- (b) (i) What is a firewall? Explain any two types of firewall.
 - (ii) How are intruders classified? Explain in detail.

185/690-2