# 1387

## April 2025

#### Time - Three hours (Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.
  - 2. Answer all the questions either (a) or (b) in Part-B. Each question carries 14 marks.]

### PART - A

- 1. List the components of data communication.
- 2. Define switch. List the two different modes of switching.
- 3. Draw the format of Token ring frame.
- 4. Differentiate circuit switching and packet switching.
- 5. Differentiate connection oriented and connectionless service.
- 6. Define VLSM.
- 7. List the principles of security.
- 8. Write a short note symmetric encryption.
- 9. Write about viruses in network security.
- 10. State the applications of gateways.

[Turn over.....

#### PART - B

11. (a) Describe the types of topologies in networks.

(Or)

- (b) Discuss the various types of transmission media.
- 12. (a) Draw the layered architecture of the OSI model. Discuss the functions of each layer.

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- (b) Explain about the types of Ethernets.
- 13. (a) Discuss any two application layer protocols of TCP/IP.

(Or)

- (b) Describe about IP addressing in networking.
- 14. (a) Write in detail about the different types of attack.

(Or)

- (b) Discuss the AES algorithm with an example.
- 15. (a) Describe about the types of firewall.

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(b) Discuss about wireless security issues.

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