

Time :2 ½ Hours

[Total Marks: 50]

- N.B:**
- (1) **All questions are compulsory.**
  - (2) Figures to the **right** indicate full marks.
  - (3) **Assume additional data if necessary** but state the same clearly.
  - (4) Symbols have their usual meanings and tables have their usual standard design unless stated otherwise.

- Q.1 Attempt **any two** of the following (10)
- a) State and Explain the any five differences between LAN and MAN. 05
  - b) Write a short note on TCP/IP model. 05
  - c) Discuss the Implementation of IPv4 along with their components. 05
  - d) Explain reverse encapsulation (de-encapsulation) process. 05
- Q.2 Attempt **any two** of the following (10)
- a) What are different elements of Modern Technology? Explain any One in detail. 05
  - b) Discuss Openflow in detail with example. 05
  - c) State and Explain any five disadvantages of Software Defined Networking. 05
  - d) Explain key elements in unified communication. 05
- Q.3 Attempt **any two** of the following (10)
- a) Write a short note on NFV along with domain component. 05
  - b) Explain the advantages of SDN Virtualization. 05
  - c) Write a short note on Fog Computing. 05
  - d) Write a short note on Virtualization Quality of Services. 05
- Q.4 Attempt **any two** of the following (10)
- a) Write a short note on Route Redistribution. 05
  - b) Write a short note on Natting. 05
  - c) How does hello message help in OSPF? 05
  - d) Explain Policy based routing in detail. 05
- Q.5 Attempt **any two** of the following (10)
- a) Explain any one routing protocol in detail. 05
  - b) Write a short note on SDN Data Plane. 05
  - c) How Virtualization plays important role in Software Defined Networking? 05
  - d) Write a short note on Access control List(ACL). 05

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