

(3 Hours)

[Total Marks: 80]

- N.B. (1) Question no. 1 is compulsory.
(2) Attempt any three from remaining five questions.
(3) Figures to the right indicate full marks.
(4) Assume suitable data whenever required and justify them.

- Q.1 (a) Explain IP Address and Allocation Technique. (10)
(b) Explain OSPF protocol. (10)
- Q.2 (a) Explain protocol stack architecture. (10)
(b) Differentiate between RIPv1 and RIPv2. (10)
- Q.3 (a) Explain architecture view of internet. (10)
(b) What are the characteristics of network algorithms? (10)
- Q.4 (a) Explain in detail of router architecture. (10)
(b) Explain IP packet filtering and classification. (10)
- Q.5 (a) Explain a general framework for source based QoS routing. (10)
(b) Explain VPN traffic engineering. (10)
- Q.6 (a) What are the QoS attributes? Explain it. (10)
(b) Explain traffic engineering of IP/MPLS networks. (10)