

Time: 3 Hours

Marks: 80

Note:

1. Question 1 is compulsory.
2. Attempt any 3 questions out of the remaining questions.

Q1.

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|--------------------------------------------|----|
| a. Compare IPv4 and IPv6. | 05 |
| b. Compare OSPF and RIP. | 05 |
| c. Draw and explain ATM cell format. | 05 |
| d. Explain session control protocol H.323. | 05 |

Q2.

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|-------------------------------------------------------------------------------|----|
| a. Explain the ATM architecture in detail giving the need for adaption layer. | 10 |
| b. Explain the SDH/SONET frame format. | 10 |

Q3.

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| a. Explain X.25 protocol in detail. | 10 |
| b. Explain M/M/1 queuing model with Little's Formula. | 10 |

Q4.

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| a. Explain SNMP protocol and the MIB structure for objects. | 10 |
| b. Explain MPLS with illustration, giving details of use of Label Distribution Protocol | 10 |

Q5.

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| a. Explain IGMP and give its message format in detail. | 10 |
| b. Explain Design parameters for Peak, delay or latency, availability and reliability. | 10 |

Q6.

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| a. Compare Interior BGP with Exterior BGP. | 05 |
| b. Compare RTP with RSVP protocols. | 05 |
| c. Compare integrated and Differentiated service. | 05 |
| d. Write a short note on SMI. | 05 |
