



- Notes :
1. Due credit will be given to neatness and adequate Dimensions.
 2. Assume suitable data wherever necessary.
 3. Illustrate your answer necessary with the help of neat sketches.
 4. Use of pen Blue/Black ink/refill only for writing book.

SECTION - A

1. a) Explain Multiplexing structure & Frame structure of SONET/SDH. 7
- b) Discuss attractive features of SONET & SDH. 6

OR

2. a) Discuss virtual tributaries & virtual containers. 7
- b) Explain in brief history of SONET & SDH. 6
3. a) Explain In-band & out of band control signalling. 7
- b) Explain optical & Digital Transport hierarchies. 6

OR

4. a) Explain OTN layered model. 7
- b) Explain SONET & SDH multiplexing hierarchies. 6
5. a) Explain TDM & WDM topologies. 8
- b) Explain Line & Path protection switching. 6

OR

6. a) Explain optical channel concatenation. 8
- b) Explain Span Loss & chromatic Dispersion. 6

SECTION - B

7. a) Explain why label switching is of such keen interest in the industry. 7
- b) Explain control & Data planes internetworking. 6

OR

8. a) Discuss the relationship of MPLS & optical networking. 7
b) Explain MPLS support of virtual private network. 6
9. a) How GMPLS is employed? 6
b) Explain in detail framework for IP over optical network. 7

OR

10. a) Discuss Generalized MPLS use in optical networks. 7
b) What is Bidirectional LSP's in optical network. 6
11. a) Discuss Label Switched paths & OSP. 7
b) Explain Recovery & use of protection path. 7

OR

12. a) Discuss the Basic function of Link management protocol. 7
b) Give summary of the evolution of switching technologies. 7

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