

Duration: 3hrs

[Max Marks:80]

- N.B.:** (1) Question No 1 is Compulsory.
(2) Attempt any three questions out of the remaining five.
(3) All questions carry equal marks.
(4) Assume suitable data, if required, and state it clearly.

- Q1. Attempt any FOUR [20]
a Explain briefly 802.11 architecture. [05]
b Explain DWDM technology with a neat diagram. [05]
c Explain Network security safeguards [05]
d Explain flooding in routing protocol. [05]
e List and briefly describe Applications of IPsec. [05]
- Q2. a With a neat flowchart, explain how CSMA/CA is implemented in WLAN? [10]
b Explain ATM model and AAL with respect to services and protocol. [10]
- Q3. a Draw and Explain frame format of SONET. [10]
b Explain TLS Protocol Stack with record protocol operation [10]
- Q4. a Explain the structure of a Real Time Transport Protocol (RTP) packet? Describe the role of each field in the packet header. [10]
b How is security achieved in transport and tunnel modes of IPSec? Explain the role of AH and ESP. [10]
- Q5. a Why is firewall required in Network Security? Discuss two types of firewalls in detail. [10]
b Explain method of video compression MPEG. [10]
- Q6. a Differentiate intradomain and interdomain routing? Explain OSPF protocol in detail. [10]
b Explain the different layers in Network design. [10]