

Q.P. Code : 733703

(3 Hours)

[Total Marks : 80

- N.B. : (1) Question No.1 is compulsory.
(2) Solve any three from remaining.

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1. Solve any four : 20
- (a) Write a short note on frame relay.
 - (b) What do you mean by Network layer design ?
 - (c) What is wireless sensor network ?
 - (d) Explain with diagram frame format of SONET.
 - (e) What is Roll of VCI & VPI in ATM ?
2. (a) What is a firewall ? What are the capabilities & limitation of firewall ? Discuss the different type of firewall, along with their advantage & disadvantage. 10
- (b) Explain the hardware implement of SONET architecture. 10
3. (a) Explain the protocol stack for IEEE 802.15.1 standard. 10
- (b) Draw and explain IEEE 802.15.4 LR-WPAN device architecture. 10
4. (a) Explain ATM cell format. Also describe the different functional layers of ATM and bring out the significance of AAL layer. 10
- (b) Draw and explain frame format of FR & explain address fields. How it provides congestion control and QoS. 10
5. (a) Explain Demilitarized Zone (DMZ) in brief. 10
- (b) What is the need of DWDM? Explain the technology with a neat schematic diagram, also list the system components. 10
6. Write a short note (any four) : 20
- (a) RMON and FCAPS
 - (b) Packet filtering
 - (c) B-ISDN
 - (d) NAT
 - (e) Port forwarding
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