

B. E. sem-VIII (C&SGS) Electronics - Adv. N/wing Tech.
Advance Networking Technology

16/12/16

Q.P. Code : 733703

(3 Hours)

[Total Marks : 80

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

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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