

BE / Sem - VIII / CBGS / EXTRA / ANT / 02/06/2018
Sub: Advanced Networking Technology
(3 Hrs)
Q.P. Code: 38608
Total Marks: 80

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

Q 1 Solve any four 20

- (a) Draw and explain Bluetooth Protocol Stack
- (b) Explain SNAT in detail.
- (c) What is the role of VPI and VCI in ATM?
- (d) Draw and explain Frame format SONET.
- (e) Explain RMON with respect to network management.

Q 2 (a) Draw and explain IEEE 802.15.4 LR-WPAN Device architecture. 10

(b) Explain different network security safe guards in detail. 10

Q 3 (a) Explain ATM protocol architecture in detail. 10

(b) Draw and explain frame format of Frame relay. Which bits from format contributes to avoid network congestion? Mention the bits and explain those bits in detail. 10

Q 4 (a) What is the need of DWDM? Explain working principal of DWDM along with advantages and disadvantages. 10

(b) Explain OAMP with respect to network management. 10

Q 5 (a) Explain the steps for completing access layer design in detail. 10

(b) Why firewall is required in network security? Discuss any two types of firewall. Discuss the limitations of firewall. 10

Q 6 Write a short note on any four. 20

(a) SNMP.

(b) Comparison between Ubiquitous and hierarchical access in access network design.

(c) Draw and explain cell format of ATM.

(d) Wireless sensor network.

(e) DMZ.
