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## Question Paper Code : X 67550

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020  
Eighth Semester  
Computer Science and Engineering  
CS 1451 – NETWORK PROTOCOLS  
(Regulations 2008)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

**(10×2=20 Marks)**

1. What are advantage and disadvantage of frame relay ?
2. What are the four reference points defined by CCITT ?
3. Mention any 2 differences between ISDN and B-ISDN.
4. What are the applications of ATM constant Bit Rate Service ?
5. What is IP ? Mention the two IP service primitives.
6. What is the need for routing protocols ?
7. What are the key elements of TCP/IP network management ?
8. What are the limitations of SNMP ?
9. What is the use of filter in RMON ?
10. Write short notes on USM in SNMPv3.

PART – B

**(5×16=80 Marks)**

11. a) i) Discuss how frame relay differs form conventional X.25 networking. **(6)**  
ii) Illustrate the ISDN architecture with a block diagram. **(10)**  

(OR)
- b) i) How does ISDN permit access to packet switched services over a B channel ? **(10)**  
ii) What are the core functions of LAPF (Link Access Procedure for Frame Mode Bearer services) ? **(6)**



12. a) Explain in detail the concept of ATM cell transmission. (OR)
- b) Explain in detail the congestion control in data networks.
13. a) Briefly explain the idea behind Elliptic Curve Cryptosystem. (16)
- (OR)
- b) Explain in detail the operation of Secure Socket Layer in detail. (16)
14. a) i) Draw and explain the network monitoring configurations. (10)
- ii) Write notes on Network configuration control. (6)
- (OR)
- b) Explain the syntax for various SNMPv1 message formats. (16)
15. a) i) What are the extensions proposed in SMP for upgrading SNMP ? (8)
- ii) What are the threats that can be handled by SNMPv3 ? (8)
- (OR)
- b) Discuss the various groups of RMON and its functions in network monitoring. (16)
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