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A – 2362

Reg. No. : .....

Name : .....

**Eighth Semester B.Tech. Degree Examination, April 2016**  
**(2008 Scheme)**  
**08.803 : COMPUTER COMMUNICATION (T)**

Time: 3 Hours

Max. Marks : 100

- Instructions:** 1) Answer **all** questions in Part – A. **Each** question carries 4 marks.
- 2) Answer **any two** questions from **each** Module in Part – B. **Each** question carries 10 marks.

**PART – A**

1. Compare circuit switching and packet switching.
2. What is the difference between coaxial cables and fiber optic cables.
3. Explain stop and wait protocol.
4. Draw the packet format of RIP.
5. Explain the need of address translation.
6. Compare UDP and TCP.
7. What is global internet.
8. What is MD5 ?
9. Draw the ESP format of IPsec.
10. Explain the operation of a firewall.



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**PART – B**  
**Module – I**

11. What is framing ? Draw the frame format of HDLC and SONET STS – I frame.
12. Explain internet checksum algorithm.
13. How the limitations of bridges are overcome ?

**Module – II**

14. Explain MPLS.
15. a) Draw the IPV4 packet header.  
b) Find the class, network ID and Host ID for the following IP addresses.
  - i) 4.23.145.190
  - ii) 227.34.78.7
  - iii) 246.7.3.8
  - iv) 129.6.8.4
  - v) 198.76.9.23
16. Explain the various TCP congestion control mechanisms.

**Module – III**

17. Explain the various authentication protocols.
  18. Briefly describe Network Intrusion Detection System.
  19. Explain ethernet passive optical networks.
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