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**Question Paper Code : 81301**

M.E. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

First Semester

Computer and Communication

CP 9212/AP 957/CP 912/10244 CC 203 – HIGH PERFORMANCE COMPUTER NETWORKS

(Common to M.E. Applied Electronics, M.E. Computer and Networking  
M.E. Communication System M.E. Networking and Internet Engineering and M.E.  
Communication and Networking)

(Regulation 2009/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Give the format of ATM packet.
2. Compare packet switching and circuit switching.
3. What is real-time streaming protocol?
4. State the two principal characteristics of RSVP.
5. What is VPN?
6. What is MPLS?
7. State little's theorem.
8. State two non-poison models.
9. What is playback attack?
10. What are the principal components of a network management architecture?

PART B — (5 × 16 = 80 marks)

11. (a) Explain the following in detail :
- (i) SONET
  - (ii) BISDN.

Or

- (b) Explain the following in detail :
- (i) TCP/IP
  - (ii) ATM.

12. (a) Explain one scheduling and one policing mechanisms.

Or

- (b) Explain differentiated services activity within the Internet Engineering.

13. (a) Explain briefly the different types of VPNs.

Or

- (b) Explain about security in VPN.

14. (a) Discuss :

- (i) The need for traffic modeling.
- (ii) Evaluation of network performance.

Or

- (b) Explain a Poisson and a non-Poisson traffic models.

15. (a) Explain briefly the four parts of the Internet Network Management framework.

Or

- (b) Explain in detail the firewalls.