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**Question Paper Code: 52237**

M.E. DEGREE EXAMINATION, NOV 2016

Elective

Communication Systems

15PCM504 - HIGH PERFORMANCE COMMUNICATION NETWORKS

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

(5 x 20 = 100 Marks)

1. (a) (i) Discuss about the various types of multiplexing. (15)  
(ii) What is ISDN? What are its functions? (5)

Or

- (b) Explain the layers of SONET in detail. (20)  
2. (a) (i) Explain the scenarios used for beyond best effort service. (15)  
(ii) Explain about streaming live Audio and video. (5)

Or

- (b) (i) Write about scheduling and policing mechanisms. (10)  
(ii) Explain about RSVP protocol? (10)  
3. (a) What is traffic engineering? Explain the characteristics of VPN? (20)

Or

(b) Explain the procedure for designing MPLS based VPN? How overlay networks guarantees convergence and facilitates deterministic search? (20)

4. (a) Describe in detail about non poisson traffic modelling and its failure. (20)

Or

(b) Explain the various Queuing Disciplines in detail. (20)

5. (a) Explain how a private network can be protected from attack? Give counter measures. (20)

Or

(b) Explain about (i) authentication protocols (ii) digital signature. (20)

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