torse ive	1. 31 Questions: 8 ] [Total No. of Printed Pages: 3	
	Roll No	
	MCSE/MSE(N)-105	
3)	M. E./M. Tech. (First Semester) EXAMINATION, March, 2010 ADVANCE COMPUTER NETWORKING	1
	Time: Three Hours	
	Maximum Marks: 100	
	Minimum Pass Marks: 40	
Note:	Attempt any five questions. All questions carry equal marks.	
1. (a)	Explain the function of the following layer in ISO OSI	
	model: 12	
	(i) Data Link Layer	
0	(ii) Network Layer	
-	(iii) Transport Layer	
(b)	Why do HTTP, FTP, SMTP, POP3 and IMAP run on top of TCP rather than on UDP? Discuss.	
(c)	A system has an N-layer protocol hierarchy. Applications generate message of length M bytes. At each of the layers, a h-byte header is added. What fraction of the network bandwidth is filled with header?  4	1
2. (a)	Explain Routing Information Protocol.	

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node I. The weights shown are like costs:

Find the shortest paths to all other nodes starting from

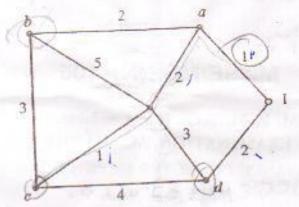
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- 3. Explain the following in brief: (i) Get, Post, Put methods of HTTP

- (ii) Telnet and Rlogin
- - (iii) SMTP
  - (iv) MIME
  - (a) Explain the following related to blue tooth:

20

- Scatternet (i)
- (ii) Piconet
- (iii) Link Manager (LMP)
- (iv) Telephony control specification (TCS)
- (b) Explain the hidden station and exposed station problem of wireless LAN.
- 5. (a) How is a network ID assigned in a CIDR IP address?

- (b) How CIDR reduces the number of entries in a routing table?
- (c) Explain count-to-infinity problem of distance vector routing. What are the advantages of link state routing over distance vector routing

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6/ Make comparison between the following:	20
(a) Physical network management and logical network	ork
management	
(b) IPV6 and IPV4	
(a) Illustrate physical medium characteristics of AIM.	5
(b) Explain service classification of AAL layer.	5
(c) ATM is connection-oriented protocol, how car	it
support connectionless services ?	
(d) Write about statistical multiplexing used in A	TM
networks.	5
8. Write notes on any two of the following:	20
(a) Fiber Optics	
(b) Multicast Open Shortest Path First	
(c) VPN addressing	
(d)/CDMA	
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