

AB-5727

M. C. A. (Sem. IV) Examination May/June - 2015

403: Data Communication & Networking Protocols

Time: 3 Hours [Total Marks: 70

Instruction:

નીચે દર્શાવેલ → નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of → signs on your answer book. Name of the Examination :	Seat No.:
● M. C. A. (SEM. IV)	
Name of the Subject :	 (
◆ 403 : DATA COMMU. & NETWORKING PROTOCOLS	
Subject Code No.: 5 7 2 7 → Section No. (1, 2,): Nil	Student's Signature

1 Answer the following in brief: (any seven)

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- (i) What is closed-loop congestion control?
- (ii) What is Silly window Syndrom?
- (iii) What is address aggregation?
- (iv) A router with IP address 213.65.19.118 sends a packet to a host with IP address 105.63.14.35. Is the delivery direct or indirect? Justify your answer.
- (v) In reference to ICMP what is parameter problem.
- (vi) What is work of DNS resolver?
- (vii) What is BGP and RIP?
- (viii) What is DDNS?
- 2 (a) Discuss in brief different forwarding techniques.

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(b) Discuss in brief the OSI model.

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- (c) Explain brief MASK and CIDR Notation.

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OR

(c) Discuss in brief forwarding and routing in classless 4 addressing.

3	(a)	Explain with proper figure ARP packet.	5
	(b)	Explain in brief how IP checksum is calculated?	5
	(c)	Explain any two query message of ICMP.	4
		OR	
	(c)	Explain any two error reporting message of ICMP.	4
4	Ans	wer any two:	
	(a)	Explain in brief the services offered by TCP to	7
		application layer.	
	(b)	Briefly state advantages, disadvantages and	7
		usage of UDP. Does UDP support any mechanism for	
		error control? Justify your answer.	
	(c)	Discuss in brief different TCP timers.	7
5 (a)	(a)	Write short note on DNS.	7
	(b)	Explain in brief message transfer agent, TRACERT.	4
	(c)	Explain in brief BOOTP.	3
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