FirstRanker.com Pagestahker's choice ECS-601/NCS-601 MANNY First	
(Following Paper ID and dori No. to be filled in your er.com Answer Books)	
Paper ID: 110601 Ro	II No.
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Theory Examination (Semester-VI) 2015-16	
COMPUTER NETWORKS	
Time: 3 Hours	Max. Marks: 100
Note: Attempt questions from all Sections as per directions.	
Section-A	
Attempt all parts of this section	1. Answer in brief.
	(2×10=20)
• ()	s 180.25.21.172 and the subnet what is the subnet address?
(b) What is count-to-infin	ity problem?
(c) The filters used in telephony end offices limit high fre-	
	n telephone lines. What is its cut- ADSL modems are used on cus-
tomer lines?	dost modells are used on cus-
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ment. Explain TCP congestion control algorithm in internet. What is TCP segment header? Also discuss TCP connection manage-

m/sec. The link has bandwidth of 6Mbps. of link is 3000km. The speed of light inside the link is 2×101 queuing time of 2 µs and a processing time of 1 µs? The length What is the total delay (latency) for a frame size of 10 million bits that is being set up on link with 15 routers, each having

services of each layer? What is OSI Model? Explain the functions and protocols and

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Attempt any two questions from this section.

- If fragmentation needed in concatenated virtual circuit internets or only in datagram systems? Explain.
 - What is hamming code? Explain its working with suitable example.
- Answer each question:
 - Find the class of each address
 - (a) 140.213.10.80
 - (b) 52.15.150.11
 - What is the type of the following address?
 - (a) 4F::A234:2
 - (b) 52F::1234:2222
 - (iii) What is congestion? Name the techniques that prevent congestion.
- Write short notes on any three of the following:
 - DNS in the internet
 - Voice Over IP (ii)
 - SNMP
 - (iv) Electronic mail
 - File Transfer Protocol

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