Reg. No.					



SEVENTH SEMESTER B.TECH. (INSTRUMENTATION AND CONTROL ENGG.) END SEMESTER EXAMINATIONS, NOV - 2017

SUBJECT: COMPUTER NETWORK & PROTOCOL [ICE - 4017]

Duration: 3 Hour Max. Marks:50

Instructions to Candidates:

- ❖ Answer ALL the questions.
- Missing data may be assumed and draw diagrams wherever necessary

1A	With neat diagram, explain TCP/IP and OSI reference models by listing all functionalities.					
1B	Explain the process involved in transforming a working document into an internet standard.					
1C	Distinguish connection-oriented communication and connectionless communication.					
2A	In a network, subnet address is 192.168.10.0/24 with subnet mask /28; determine the following:	4				
2B	 a) No. of subnets b) Valid subnets c) Broadcast address for each subnet d) Valid hosts Differentiate layer 2 and layer 3 broadcast with one example for each 	2				
2C	A service provider is granted a block of address in class full addressing with the beginning address as 14.24.74.0/24. The service provider needs to have 2 subblocks of addresses to get connected to customers as shown below:	4				
3A	 a) One subblock with 60 addresses b) One subblock with 16 addresses Diagrammatically show the network information highlighting the address wastage Explain all layers of virtualization with an example. 	7				
3B	List different types of routing and write its advantage and disadvantage.	3				
4A 4B	What is the relation between cloud and datacenter? Explain the range of services offered by the cloud vendors Describe different timers in RIP?	4 2				
4C	Define cloud computing. What are the two main disadvantages of cloud?	2				

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- 5A Consider the newly established network shown in Fig Q.5A. Draw the routing table formed at the 5 beginning and end of the convergence time by each router. Also configure the routers using RIP. 3
- 5B Contrast between OSI and TCP/IP
- List various WLAN security issues. 5C 2

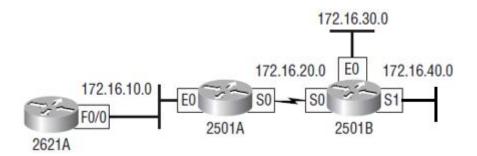


Figure Q.5A

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