

Semester: July 2017- November 2017

Max. Marks: 30

Duration: 1hr.15 min.

Class: TY. B.Tech
Branch: COMP

Semester: V
Course Code: UCEC-502

Test 2

Name of the Course: Data Networks

Question No.		Max. Marks	*CO Mapped																									
1.	<p>Write a note on Routing Information Protocol (RIP).</p> <p>A router using RIP protocol has following routing table:</p> <table><tr><th>Destination</th><th>Metric</th><th>Next Hop</th></tr><tr><td>Net1</td><td>5</td><td>B</td></tr><tr><td>Net2</td><td>1</td><td>C</td></tr><tr><td>Net3</td><td>2</td><td>F</td></tr><tr><td>Net4</td><td>4</td><td>G</td></tr></table> <p>What will be the contents of the table if the router received the following RIP message from router C?</p> <table><tr><th>Destination</th><th>Metric</th></tr><tr><td>Net1</td><td>2</td></tr><tr><td>Net2</td><td>2</td></tr><tr><td>Net3</td><td>4</td></tr><tr><td>Net4</td><td>8</td></tr></table>	Destination	Metric	Next Hop	Net1	5	B	Net2	1	C	Net3	2	F	Net4	4	G	Destination	Metric	Net1	2	Net2	2	Net3	4	Net4	8	4+3	CO-2
Destination	Metric	Next Hop																										
Net1	5	B																										
Net2	1	C																										
Net3	2	F																										
Net4	4	G																										
Destination	Metric																											
Net1	2																											
Net2	2																											
Net3	4																											
Net4	8																											
2.	<p>Describe with the help of neat diagram, data transfer from a mobile node to a fixed node and vice versa in Mobile IP. Why and where is encapsulation needed?</p>	5+3	CO-2,3																									
3	<p>What is 3-node instability in Distance Vector algorithm?</p> <p>Explain with neat diagram.</p>	5	CO-2																									
4.	<p>With respect to DVMRP, explain:</p> <p>(i) RPF (ii) RPB</p>	6	CO-2																									
5.	<p>What are the duties of Transport layer?</p> <p>List the services provided by Transport layer to upper layers?</p>	4	CO-4																									