Code No. 6359 / M

FACULTY OF INFORMATICS B.E. 3/4 (IT) II – Semester (Main) Examination, June 2014

Subject : Computer Networks

Time : 3 hours

Max. Marks : 75

Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B. PART – A (25 Marks)

1	What is a Computer Network? Give an example.	(3)
2	Distinguish between service and protocol.	(3)
3	Define HTTP.	(2)
4	What is DNS? Specify the format of resource record.	(3)
5	Differentiate between TCP and UDP.	(3)
6	Differentiate between IPv4 and IPv6.	(2)
7	What is RPC? Define marshaling.	(2)
8	What are value result arguments? Which system calls use them?	(2)
9	What is the purpose of application gateway in a firewall?	(2)
10	What is a digital signature? What are the different methods of achieving the same?	(3)

PART – B (50 Marks)

11	What is a routing algorithm? Discuss static and dynamic routing algorithms. (each	
	one in detail)	(10)
12	a) Explain Interior and Exterior routing protocols in detail.	(7)
	b) Draw and give range of all IP addresses. What is loop back address?	(3)
13	a) Define socket. Explain all elementary socket system calls in detail.	(8)
	b) Define "association".	(2)
14	Explain protocols for Voice over IP.	(10)
15	a) Explain any symmetric-key algorithm in detail.	(8)
	b) Differentiate between authentication and authorization.	(2)
16	a) Explain various congestion control methods used in virtual circuit and datagram	
	subnets.	(6)
	 Explain the fields of TCP header along with a diagram. 	(4)
17	Write short notes on :	(5+5)
	a) Mobile IP b) Authentication protocols	-
