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Question Paper Code: 45300

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Elective

Software Engineering

ESE 510 — NETWORK PROTOCOLS

(Regulation 2010)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

 $PART A - (10 \times 2 = 20 \text{ marks})$

- State the roles of ICMP.
- What does a router do if it is unable to deliver a packet to its destination?
- What do you mean by foreign agent in mobile IP?
- How does BOOTP guard against loss of message?
- What is the purpose of the root server in DNS? **5**.
- What are the features of NFS? 6.
- List any four SMTP commands.
- What is the difference between HTTP POST and HTTP PUT command? 8.
- What is active and passive monitoring in firewall? 9.
- List and define the basic IPV6 address types. 10.

PART B
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 (5 × 16 = 80 marks)

Describe the main services offered by ICMP. (6)With schematic explain the behavior of the TCP as a finite state (ii)(10)machine.

Or

- Discuss IP routing and distance vector routing procedures. (8) (b) (8)
 - Explain the features of BGP in detail (ii)

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	12.	(a)	(i)	Explain about the broadcast and multicast routing.	(8)
			(ii)	Describe about two-cross problem in mobile IP multicasting.	(8)
				\mathbf{Or}	
		(b)	(i)	Explain the BOOTP message format and its operations.	(8)
			(ii)	Explain with a neat sketch the DHCP operations.	(8)
· 1	13.	(a)	(i)	Explain in detail the organization of domain Name Space.	(8)
			(ii)	Describe the features and process model of FTP.	(8)
				\mathbf{Or}	
•		(b)	(i)	Explain the working of TELNET protocol with neat diagram.	(8)
			(ii)	Describe the use of NFS remote procedure call between client server.	and (8)
1	4.	(a)		lain the architecture, delivery of mail, interaction with end user various options supported in an e-mail system.	and
				\mathbf{Or}	
		(b)	Exp	lain in detail the multimedia services over IP using RTP.	
1	5 .	(a)	(i)	Explain the SNMP architecture with its implementation in network management system.	the (8)
			(ii)	Explain the packet filter and application level gate configuration of firewalls.	way (8)
				\mathbf{Or}	
		(b)	(i)	Explain the basic header of IPV6 with a neat diagram.	(8)
		•	(ii)	Describe the extension header of IPV6 with a neat diagram.	(8)