No. of Printed Pages: 3

Time: 2 Hours

BCS-61

Maximum Marke · 60

BACHELOR OF COMPUTER APPLICATIONS (BCA)(REVISED)

Term-End Examination June, 2019

BCS-61: TCP/IP PROGRAMMING

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Note: Question No. 1 is compulsory. Answer any three questions from the rest.					
. (a)	What is the role of 'grep' command in Unix?				
(b)	What is the difference between physical address (MAC) and IP address?				
(c)	What are the advantages of TCP over UDP?				
(d)	Identify the class of IP-address of the following: (i) 220.2.5.7 (ii) 125.10.5.6 (iii) 191.10.8.17 (iv) 246.1.5.6				
	(IV) 440.1.0.b				

	(e)	Write the significan	ce and working	of
•		DNS.		5
	(f)	What are the role	es of HTTP, F	TP
		protocols?		7
2.	(a)	Explain TCP segmen	t header format	in
		detail.		7
	(b)	Draw the header form	at of UDP protocol	. 3
3.	(a)	Write a C-language	program in Unix	to
		represent Data Transf		
		(i) Send		•
		(ii) Receive	•	
	(b)	What is socket? Exp	lain the structure	of
		the socket.		4
4.	(a)	Explain about the	following U	nix
		commands:		5
•		(i) ls		
		(ii) clear		
		(iii) head	•	•
		(iv) tail		
		(v) cd		

•	(b)	Explain the method used by TCP to	handle
		'Out-of-order' segment situation.	5
5.	Wr	ite short notes on the following:	10
	(a)	Voice over IP	
	(b)	CIDR	
	(c)	ICMP	
	(d)	DHCP	

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