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## **BCACAC 262**

Credit Based IV Semester B.C.A. Degree Examination, May/June 2016 (New Syllabus) (2013-14 Batch Onwards)

PRINCIPLES OF TCP/IP

Time: 3 Hours Max. Marks: 80

Note: Answer any ten questions from Part – A and one full question from each unit of Part – B.

## PART-A

a) What is RFC?

 $(10 \times 2 = 20)$ 

- b) What is limited broadcast?
- c) Expand IAB and ARPANET.
- d) List any two functions of IP.
- e) What are the functions of HELLO protocol?
- f) What is routing table?
- g) What is BGP?
- h) Expand TCP and UDP.
- i) What do you mean by reliable stream delivery?
- j) What is the use of Rlogin protocol?
- k) What are the advantages of delayed acknowledgement scheme?
- I) What is caching?

## PART - E

		Unit – I	
2:	a)	Explain various classes of IP addressing scheme.	
		Explain address resolution through direct mapping.	
		Write a note on cache and ARP timeouts.	(6+5+4)
3.	a)	Write a note on internet architecture.	
	b)	Explain TCP/IP 5 layer reference model.	
	c)	How RARP work? Explain.	(5+6+4)
		Unit – II	
4.	a)	Write IP forwarding algorithm.	
	b)	Explain subnet addressing with an example.	
	c)	Explain RIP operation.	(5+5+5)
5.		How the datagram can be forwarded using direct delivery? Explain.	(6)
0.	b)	Explain various characteristics of OSPF protocol.	(0
	,	Explain routing with IP addresses.	(5+5+5)
		Unit – III	
6.	a)	Explain sliding window technique with a diagram.	
	b)	TOP lishes connection using 3 way handshake	
	c)	Explain various services offered by telnet protocol.	(5+5+5)
7.			(0
	b)	Explain TCP acknowledgement retransmission and timeout.	
	c)	How application programs are used to implement telnet client and telne server with a diagram?	(5+5+5)
		Unit – IV	
8	. a	Explain FTP process model with diagram.	
		Explain various characteristics of IP multicasting.	
	С	Explain DNS message format fields.	(5+5+5)
9	. a	Explain NFS with diagram.	
	b	Explain send-side silly window Avoidance.	(F. F. F)
	С	) Write a note on MIME protocol.	(5+5+5)