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Total Pages: 037

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INTERNET TECHNOLOGIES BCA-364

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. Attempt all the following:

 $4 \times 4 = 16$

- (a) DNS Mapping
- (b) DHCP
- (c) SMTP
- (d) Firewall.

Unit I

- 2. (a) What is Internet? Explain history and services of Internet.
 - (b) Explain the following terms related to internet:

 Client-Server, Chat and Bulletin Board, URL and
 Web browsers.
- 3. (a) Explain various layers in TCP/IP reference model.
 - (b) Distinguish between Internet and Intranet. 6

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Unit II

4.		do you mean by IP Address? Explain various	
	class	es of IPv4 address. Explain IPv4 header format in	
	detai	and distinguish between IPv4 and IPv6.	
5.	Explain the following terms with header format: 4×4=		
	(a)	TCP	
	(b)	UDP	
	(c)	ARP	
	(d)	ICMP.	
		Unit III	
6.	(a)	Explain FTP and distinguish between FTP and TFTP.	
		8	
	(b)	Explain RTP and RTCP in detail. 8	
7.	Explain the following terms: 4×4=1		
	(a)	Telnet	
4,-	(b)	IMAP	
*	(c)	RSVP	
•	(d)	POP.	
) 114 ji	. 4 , 4	Unit IV	
8.	(a)	Explain OSPF protocol in detail. 8	
	(b)	What is Virtual Private Network? Explain with	
er.		proper diagram.	

9. Explain the following terms:

4×4=16

- (a) BGP
- (b) Mobile IP
- (c) NAT
- (d) Firewall.