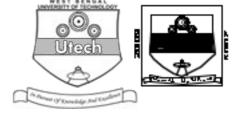
# INTERNET TECHNOLOGY (SEMESTER - 8)

#### CS/B.TECH(ECE-NEW)/SEM-8/EC-804A/09



1.	Signature of Invigilator			a:	Anna (y	Carriely .	nd treffend	n	E = 1	<del>,</del> , ,	<u>.</u>
2.	Signature of the Officer-in-Charge										
	Roll No. of the Candidate										

CS/B.TECH(ECE-NEW)/SEM-8/EC-804A/09 ENGINEERING & MANAGEMENT EXAMINATIONS, APRIL - 2009 INTERNET TECHNOLOGY (SEMESTER - 8)

[Full Marks: 70 Time: 3 Hours ]

#### **INSTRUCTIONS TO THE CANDIDATES:**

- This Booklet is a Question-cum-Answer Booklet. The Booklet consists of 32 pages. The questions of this concerned subject commence from Page No. 3.
- 2. In **Group - A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided against each question.
  - b) For Groups - B & C you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of Group - B are Short answer type. Questions of Group - C are Long answer type. Write on both sides of the paper.
- 3. Fill in your Roll No. in the box provided as in your Admit Card before answering the questions.
- 4. Read the instructions given inside carefully before answering.
- 5. You should not forget to write the corresponding question numbers while answering.
- Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
- Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall. 7.
- You should return the booklet to the invigilator at the end of the examination and should not take any 8. page of this booklet with you outside the examination hall, which will lead to disqualification.
- 9. Rough work, if necessary is to be done in this booklet only and cross it through.

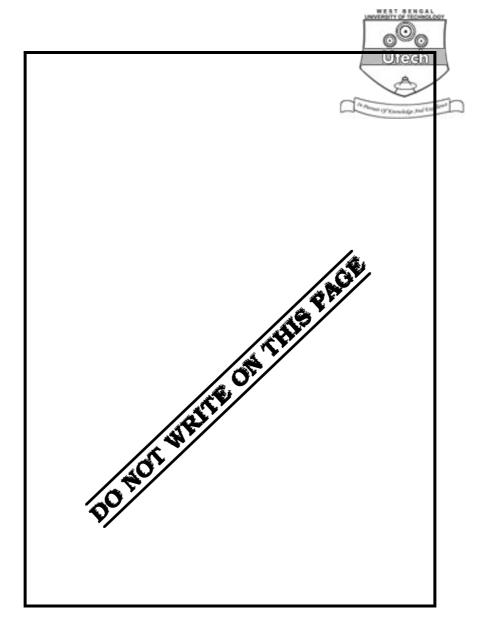
#### No additional sheets are to be used and no loose paper will be provided

#### FOR OFFICE USE / EVALUATION ONLY Marks Obtained Group - A Group - B Group - C **Question** Total Examiner's Number Marks Signature Marks **Obtained**

Head-Examiner/Co-Ordinator/Scrutineer

8878-A/E (27/04)





3



# ENGINEERING & MANAGEMENT EXAMINATIONS, APRIL 2009 INTERNET TECHNOLOGY

**SEMESTER - 8** 

Time: 3 Hours [ Full Marks: 70

#### **GROUP - A**

# ( Multiple Choice Type Questions )

1.	Choo	se the	correct alternative of the follow	ring :	10	× 1 = 10		
	i)							
		a)	Process	b)	Host			
		c)	Server	d)	All of these.			
	ii)	Defa	ult mask for 193.6.7.2 is					
		a)	255.0.0.0	b)	255.255.0.0			
		c)	255.255.255.0	d)	none of these.			
	iii)	Which	h mapping method is used to fir	nd a p	hysical address given a logical	address		
		a)	HTTP	b)	ARP			
		c)	DNS	d)	RARP.			
	iv)	Whic	h of following is shortcoming of	RIP p	rotocol ?			
		a)	Failure	b)	Convergence			
		c)	Authentication	d)	All of these.			
	v)	Which protocol is used to deliver vital network information to either dicomputers or computers at 1st boot?						
		a)	HTTP	b)	SMTP			
		c)	ВООТР	d)	UDP.			

8878-A/E (27/04)

## CS/B.TECH(ECE-NEW)/SEM-8/EC-804A/09



	vi)	vi) Which protocol is designed to provide security at the transport layer							
		a)	IPSEC	b)	SSL				
		c)	Firewall	d)	All of these.				
	vii) Which port is used for control connection of FTP ?								
		a)	20	b)	21				
		c)	80	d)	6890.				
	viii)	The	e TELNET client converts the	e characters	s to which of the following	form?			
		a)	ASCII	b)	NUT				
		c)	UNICODE	d)	None of these.				
	ix)	SSI	is located between	an	d				
		a)	transport, network	b)	application, transport				
		c)	data link, physical	d)	network, data link.				
	x)	Fire	ewall is a specialised form o	f a					
		a)	bridge	b)	disk				
		c)	printer	d)	router.				
			G	ROUP – B					
			( Short Answ		nestions )				
			Answer any t	hree of the	following.	$3 \times 5 = 15$			
2.	a) Illustrate with diagram the Firewall implementation.								
	b)	b) What is bit implementation of SSL?							
3.	a)	a) What is "routing with partial information"?							
	b)	b) What is Domain Name System?							
4.	What is Subnet?								
	1024	1 sub	ization is granted the block onets. Design the subnets ( sts in each subnet, first and	that include	de subnet mask, number				
5.	Explain what you mean by anonymous FTP.								
	Expl	ain t	he reasons for the delayed o	lelivery of a	n e-mail by SMTP.	5			
6.	Define the drawback of RARP.								
	State how you can overcome from this by bootstrap protocol ( BOOTP ).								

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# (Long Answer Type Questions)

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			Answer any three	questions.	15 = 45					
7.	a)	Give the difference	es between directed l	proadcast & limited broadcast.	3					
	b)	What is Multicast addressing?								
	c)	"TCP/IP provides a	"TCP/IP provides a connectionless and reliable transport service". Explain. 4							
	d)	Give the format of an Internet datagram.								
8.	a)	Discuss about routing in an internet.								
	b)	Explain with example the Bellman-Ford Routing. 5								
	c)	Discuss the autonomous system concept.								
9.	a)	expiration timer va		the functions of a RIP message? Verthat of the periodic timer value? I fixes?	•					
	b)	A router has the following RIP routing table.								
		Net1	4	В						
		Net2	2	С						
		Net3	1	F						
		Net4	5	G						
		What would be the contents of the table if the router receives the following from router C.								
		Net1	2							
		Net2	1							
		Net3	3							
		Net4	7							
	c)	Why do OSPF mea	ssages propagate fa	ster than RIP messages ? 7	+ 4 + 4					

#### CS/B.TECH(ECE-NEW)/SEM-8/EC-804A/09



10. a) Is the size of ARP packet fixed? Explain.

5

b) What is multicast addressing? Describe the workin Gateway.

1 + 3

principle of transport

c) What is the size of a question record contain an IP address?

2

- d) When does the DHCP server need to check the static database for address mapping? What are the types of information can a client receive from a DHCP server when it is booted for the first time in a network? 2 + 2
- 11. Write short notes of any three of the following:

 $3 \times 5$ 

- a) FTP
- b) OSPF
- c) Frame Relay
- d) VPN
- e) TELNET.

**END**