CS/B.TECH(ECE)/SEP	.SUPPLE/SEM-8/EC-804A/2012
Invigilator's Signature :	
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Name :	Olega
	110000

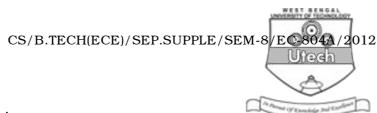
## CS/B.TECH(ECE)/SEP.SUPPLE/SEM-8/EC-804A/2012 2012

		2012		
		INTERNET TECHNO	LOC	<b>3Y</b>
Time Allotted : 3 Hours				Full Marks : 70
	The	figures in the margin indica	te full	marks.
ndida	ıtes aı	•		n their own words
		GROUP - A		
		( Multiple Choice Type Qu	estio	ns)
Cho	ose th	e correct alternatives for an	y ten	of the following: $10 \times 1 = 10$
i)	Full	form of WWW is		
	a)	World Window Web	b)	World Wide Wave
	c)	World Window Wave	d)	None of these.
ii) Class C IP addresses have numbers of hoper network.				numbers of hosts
	a)	128	b)	256
	c)	512	d)	1024.
iii) Which of the following classes of IP address is used fo multicast addressing?				
	a)	Class D	b)	Class C
	c)	Class B	d)	None of these.
iv) The process to process delivery of the entire message is the responsibility of the Layer.				_
	a)	Physical	b)	Datalink
	c)	Transport	d)	None of these.
	Choo i) ii)	The ndidates and Choose the a)  i) Full a  c)  ii) Class per r  a)  c)  iii) Whice mult a)  c)  iv) The per r  a)	INTERNET TECHNO  Allotted: 3 Hours  The figures in the margin indical andidates are required to give their answas far as practical GROUP - A  (Multiple Choice Type Quantum of WWW is a) World Window Web c) World Window Wave ii) Class C IP addresses have per network.  a) 128 c) 512  iii) Which of the following classes of multicast addressing?  a) Class D c) Class B  iv) The process to process delivery the responsibility of the In a) Physical	INTERNET TECHNOLOGY  Allotted: 3 Hours  The figures in the margin indicate full andidates are required to give their answers it as far as practicable.  GROUP - A  (Multiple Choice Type Question Choose the correct alternatives for any ten)  i) Full form of WWW is  a) World Window Web b) c) World Window Wave d)  ii) Class C IP addresses have

SS-425 [ Turn over

# CS/B.TECH(ECE)/SEP.SUPPLE/SEM-8/EC-804A/2012

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v)	Which of the following is not used in Routing?					
	a) Distance Vector	b)	SPF Complete and tradeout			
	c) BGP	d)	DHCP.			
vi)	Intransmission, both	com	munication devices			
	share the channel capacity at all times.					
	a) Simplex	b)	Half Simplex			
	c) Full Duplex	d)	Half Duplex.			
vii)	i) A WAN using the OSPF protocol that connects to routers is an example of a type of OSP network.					
	a) Point to point	b)	Transient			
	c) Stub	d)	Virtual.			
viii)	) Which of the following OSI layers is responsible for identifying communication partners?					
	a) Application	b)	Session			
	c) Network	d)	Presentation.			
ix)	The maximum size of TCP header is					
	a) 64 bytes	b)	16 bytes			
	c) 60 bytes	d)	$2^{16}$ bytes.			
x)	The position of SSL in TCP/IP model is in between					
	a) Physical and Data link Layer					
	b) Transport and Application Layer					
	c) Network and Data link Layer					
	d) Network and Transport La	yer.				



- xi) UDP is
  - a) connection oriented
  - b) connection-less
  - c) both (a) and (b)
  - d) none of these.
- xii) A TCP/IP protocol that allows a host to find its Internet address given its physical address is
  - a) ARP

b) RARP

c) RPF

d) RPM.

#### **GROUP - B**

#### (Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$ 

- 2. What is firewall? Discuss each type of firewall briefly. 1 + 4
- 3. Write down the difference between ARP and RARP.
- 4. Explain "Distance Vector Routing" with a suitable example.
- 5. What is the drawback of BOOTP? Explain how DHCP works.

1 + 4

6. What is ISDN? Draw and explain the B-ISDN functional architecture. 1+4

#### GROUP - C

#### (Long Answer Type Questions)

Answer any *three* of the following.

 $3 \times 15 = 45$ 

- 7. a) Distinguish between Internet and Intranet.
  - b) What is network protocol?
  - c) Draw the ISO 7-Layer Reference model and explain the purpose of each layer in the ISO model.

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- d) How dos packet duplication occur?
- e) What is router?
- 8. What are interior routing and exterior routing? Give example of both routing protocols. Explain any one interior routing protocol. 4+3+8
- 9. a) Draw the fields of an Internet Datagram
  - b) Draw and explain how datagram encapsulation done and what is the advantage to do so.
  - c) What is fragmentation and why is it important in Internet Datagram transportation?
  - d) What is the minimum network MTU (Maximum Transfer Unit) required to send an IP datagram that contains at least one octet of data? 4 + 4 + 4 + 3
- 10. a) Differentiate between circuit switching and packet switching.
  - b) The ATM standard defines how many layers? Briefly explain each of them.
  - c) What are the techniques have been used by VPN to guarantee privacy for an organization? Briefly explain each of them. 4 + (1 + 4) + (1 + 5)
- 11. Write short notes on any *three* of the following :  $3 \times 5$ 
  - a) BGP
  - b) FTP
  - c) E-mail
  - d) VPN
  - e) Protocol Layering.

SS-425