	Utech
Name :	
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Invigilator's Signature :	

CS/B.TECH(ME/PE)/SEM-8/CS-815/2012 2012 COMPUTER NETWORKING AND WEB BASED TECHNOLOGY

Time Allotted : 3 Hours

8394

Full Marks : 70

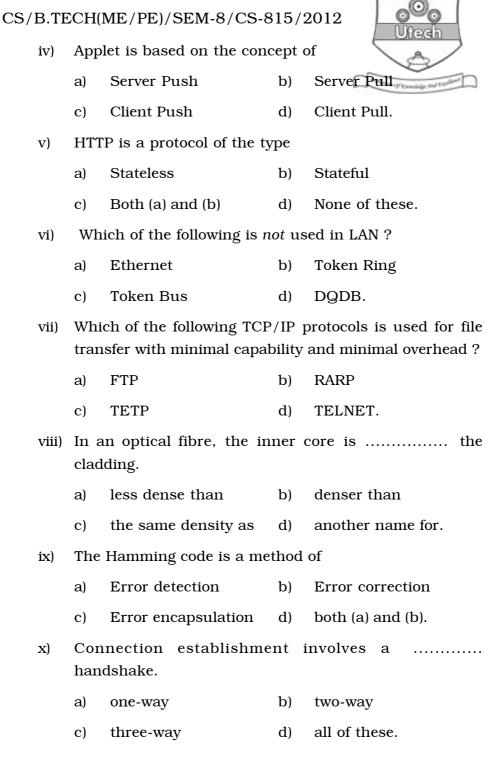
The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

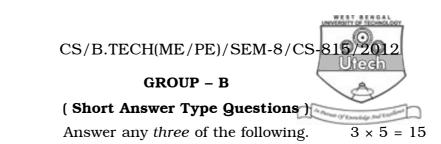
GROUP – A

(Multiple Choice Type Questions)

1.	. Choose the correct alternatives for the following :					
					$10 \times 1 = 10$	
	i) A search engine resides in the					
		a)	Browser	b)	Nearest router	
		c)	PC hardware	d)	Server.	
	of IP address is used for					
		a)	Class A	b)	Class B	
		c)	Class C	d)	Class D.	
iii) Cookie is created and sent by						
		a)	Application Server	b)	Web Server	
		c)	Web Browser	d)	Database Server.	

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- 2. Explain the difference between OSI and TCP/IP model.
- 3. a) Explain the concept of switching in computer network.
 - b) Briefly discuss the various types of switching.

 $1\frac{1}{2} + 3\frac{1}{2}$

4. a) Briefly explain the different types of guided media.

- b) Explain the merits and demerits of unguided media. $2\frac{1}{2} + 2\frac{1}{2}$
- 5. a) What is Search Engine ?
 - b) Explain the technology on which a search engine is based upon. 2 + 3
- Java is considered as a language which is based on the principle of WORA (Write Once Run Anywhere). Discuss this principle in the context of web technology.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. Let a sender is sending a message to a recipient who resides in a different country. Briefly describe how this message transmission will be successful with special reference to OSI model.

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- 8. a) What are the different classes of IP addressing system ?
 - b) Explain the concept of dotted decimal notation of IP address. Write each of the following in dotted decimal notation :

i)	10011011	11000110	10110100	10001101
ii)	10001100	11100110	10101100	11000110
iii)	10110010	00101101	01001000	00011011
iv)	10001100	11000110	10011011	10001101
V)	01001011	0000001	00110011	1000000

- 9. Briefly describe the influence of advanced java in web technology.
- 10. a) What is DNS and why is it used ?
 - b) If a DNS domain name is kal.cnn.edu, how many labels are involved here ?
 - c) Differentiate between iterative and recursive searching through the Application Layer.
 - d) What is three-way handshaking and how is it performed ?
- 11. Write short notes on any *three* of the following : 3×5
 - a) Ethernet
 - b) LAN and WAN
 - c) HTTP
 - d) Packet Switching
 - e) JVM.

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