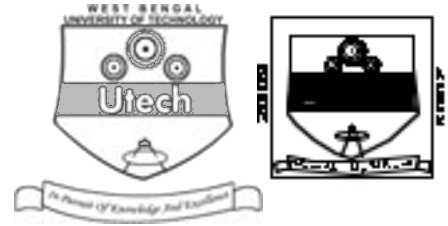


# INTERNET TECHNOLOGY ( SEMESTER - 8 )

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



1. ....  
Signature of Invigilator

2. ....  
Signature of the Officer-in-Charge

**Reg. No.**

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**Roll No. of the Candidate**

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

Time : 3 Hours ]

[ Full Marks : 70

**INSTRUCTIONS TO THE CANDIDATES :**

1. 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. a) 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.
6. 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.
7. **Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
8. You should return the booklet to the invigilator at the end of the examination and should not take any 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**

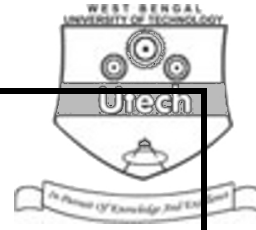
**FOR OFFICE USE / EVALUATION ONLY**

Marks Obtained

	Group – A					Group – B					Group – C						
<b>Question Number</b>																<b>Total Marks</b>	<b>Examiner's Signature</b>
<b>Marks Obtained</b>																	

.....  
**Head-Examiner/Co-Ordinator/Scrutineer**

**8878-A/E (27/04)**



**DO NOT WRITE ON THIS PAGE**



## INTERNET TECHNOLOGY

## SEMESTER - 8



Time : 3 Hours ]

[ Full Marks : 70

## GROUP - A

## ( Multiple Choice Type Questions )

1. Choose the correct alternative of the following : 10 × 1 = 10
- i) The port address uniquely identifies
- |            |                  |                          |
|------------|------------------|--------------------------|
| a) Process | b) Host          |                          |
| c) Server  | d) All of these. | <input type="checkbox"/> |
- ii) Default 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. | <input type="checkbox"/> |
- iii) Which mapping method is used to find a physical address given a logical address ?
- |         |          |                          |
|---------|----------|--------------------------|
| a) HTTP | b) ARP   |                          |
| c) DNS  | d) RARP. | <input type="checkbox"/> |
- iv) Which of following is shortcoming of RIP protocol ?
- |                   |                  |                          |
|-------------------|------------------|--------------------------|
| a) Failure        | b) Convergence   |                          |
| c) Authentication | d) All of these. | <input type="checkbox"/> |
- v) Which protocol is used to deliver vital network information to either diskless computers or computers at 1st boot ?
- |          |         |                          |
|----------|---------|--------------------------|
| a) HTTP  | b) SMTP |                          |
| c) BOOTP | d) UDP. | <input type="checkbox"/> |





( Long Answer Type Questions )

Answer any *three* questions.



3 × 15 = 45

7. a) Give the differences between directed broadcast & limited broadcast. 3
- b) What is Multicast addressing ? 3
- c) "TCP/IP provides a connectionless and reliable transport service". Explain. 4
- d) Give the format of an Internet datagram. 5
8. a) Discuss about routing in an internet. 5
- b) Explain with example the Bellman-Ford Routing. 5
- c) Discuss the autonomous system concept. 5
9. a) What is the purpose of RIP ? What are the functions of a RIP message ? Why the expiration timer value is six times than that of the periodic timer value ? List RIP shortcomings and their corresponding fixes ?
- b) A router has the following RIP routing table.

Net1	4	B
Net2	2	C
Net3	1	F
Net4	5	G

What would be the contents of the table if the router receives the following RIP from router C.

Net1	2
Net2	1
Net3	3
Net4	7

- c) Why do OSPF messages propagate faster than RIP messages ? 7 + 4 + 4



10. a) Is the size of ARP packet fixed ? Explain. 5
- b) What is multicast addressing ? Describe the working principle of transport Gateway. 1 + 3
- 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 × 5
- a) FTP
  - b) OSPF
  - c) Frame Relay
  - d) VPN
  - e) TELNET.



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END