Name : ....

Roll No. : ....

Invigilator's Signature : ....

CS/B.Tech (ECE)/SEM-8/EC-804A/2013

2013
INTERNET TECHNOLOGY

Time Allotted : 3 Hours   *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)   Which of the following identifies a specific web page and
        its computer on the Web ?
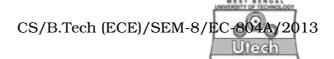
        a)   Web site   b)   Web site address

        c)   URL   d)   Domain name.

   ii) Which of the following terms applies to all the web
        pages for Amazon.com ?

        a)   Top-level domain   b)   Web site

        c)   Web site address   d)   Web domain.

   iii) Software, such as Explorer and Firefox, are referred to
        as

        a)   systems software   b)   utility software

        c)   browsers   d)   internet tools.

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iv) Which following ISP is free ?

    a) CompuServo   b) AOL

    c) NetZero   d) MSN.

v) If you wanted to be part of an online community that creates an educational web site that allows its members to add to or change its information, what type of web site would you need ?

    a) Educational or .edu   b) Social networking site

    c) Wiki   d) Web 2·0.

vi) If you wanted to create a broadcast that could be downloaded from the internet, what would you create ?

    a) IBroadcast   b) EShow

    c) Podcast   d) ICast.

vii) When data moves from one set of major connections to another on the internet, we call these connections the Internet

    a) pathway

    b) backbone

    c) communications system

    d) routers.

viii) When internet data leaves your campus, it normally goes to a (n) .... before moving toward its destination.

    a) internet backbone

    b) network access point

    c) base station

    d) communication system.

ix) MCI and AT & T are examples of which of the following ?

    a) Social networks

    b) Communications systems

    c) Internet service providers

    d) Mobisodes.

x) What type of telecommunications hardware allows you to access the web ?

    a) Browser   b) Modem

    c) FTP protocol   d) IRC.

GROUP – B
(Short Answer Type Questions)
Answer any *three* of the following.   3 × 5 = 15

2. Explain internet datagram format with a neat diagram.

3. Explain the major goals of internet protocol.

4. Explain table driven IP routing.

5. What is VLAN ? How does it differ from physical LAN ?   3 + 2

6. Discuss in brief the working principle of Network Address Translator.

GROUP – C
(Long Answer Type Questions)

Answer any *three* of the following.   3 × 15 = 45

7. Explain BGP, RIP and OSPF. Explain Vector Distance Routing Protocol.   7 + 8

8. a) What is 'Unicast' and 'Multicast' address ? How can you differentiate between them ?   2 + 3

    b) What do you mean by 'Classful' and 'Classless' addressing ?   4

    c) Discuss Class A, Class B, and Class C address.   6

9. a) What do you mean by packet filter firewall and proxy firewall ?   7

    b) Discuss in brief the SSL technology.   8

10. a) Differentiate between LAN, MAN, WAN with neat diagram.   6

    b) Compare between TCP stack and IP stack.   9

11. Write short notes on any *three* of the following :   3 × 5

    a) DNS

    b) SMTP

    c) FTP

    d) TELNET

    e) Distance Vector Routing.