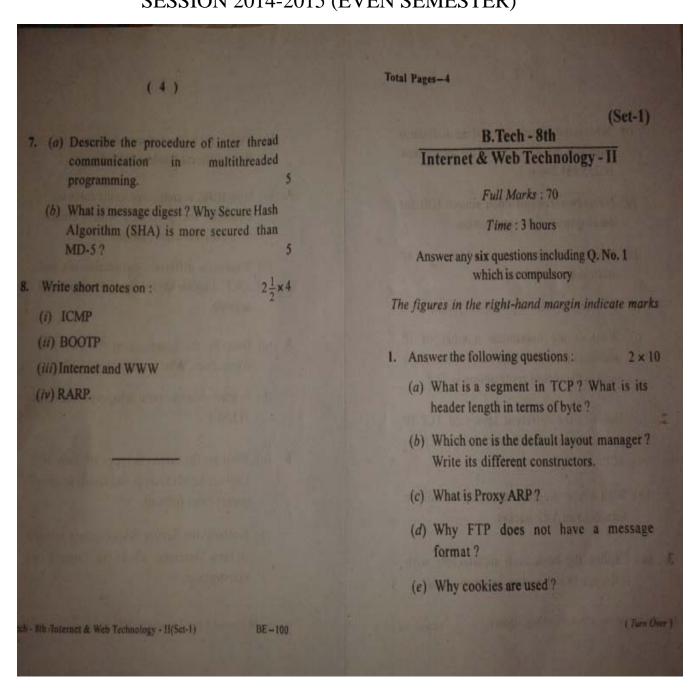VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

& INFORMATION TECHNOLOGY

SESSION 2014-2015 (EVEN SEMESTER)

7. (a) Describe the procedure of inter thread communication in multithreaded programming. 5

(b) What is message digest ? Why Secure Hash Algorithm (SHA) is more secured than MD-5 ? 5

8. Write short notes on : $2\frac{1}{2} \times 4$

(i) ICMP

(ii) BOOTP

(iii) Internet and WWW

(iv) RARP.

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(Set-1)

B.Tech - 8th

Internet & Web Technology - II

Full Marks : 70

Time : 3 hours

Answer any **six** questions including Q. No. 1 which is compulsory

The figures in the right-hand margin indicate marks

1. Answer the following questions : 2 × 10

(a) What is a segment in TCP ? What is its header length in terms of byte ?

(b) Which one is the default layout manager ? Write its different constructors.

(c) What is Proxy ARP ?

(d) Why FTP does not have a message format ?

(e) Why cookies are used ?

(2)

(f) What is the subnet address if the destination address is 200.45.34.56 and the subnet mask is 255.255.240.0 ?

(g) Name two free and open source IDE for development of java application.

(h) Who maps a name to an address or an address to a name in DNS ?

(i) What are the roles of public and private key ?

(j) What is the maximum number of IP addresses recorded if the value of the length field in the record route option is 27 ?

2. (a) Describe the different layers of TCP/IP protocol suite. Differentiate UDP from TCP. 5

(b) With a neat diagram, explain in detail the format of an ARP packet. 5

3. (a) Explain the basic web architecture with reference to web server and web client. 5

(3)

(b) Explain the CGI script execution procedure. Write different features of PERL. 5

4. (a) How JDBC is connected to the database ? Describe the procedure with a simple database connection example. 5

(b) What is the difference between swing and AWT ? Explain any two special components in swing. 5

5. (a) Describe the functions of the two FTP connections. What is anonymous FTP ? 5

(b) Explain about the remote login procedure in TELNET. 5

6. (a) What are the different types of firewall ? Explain the advantages and disadvantage of packet filter firewall. 5

(b) Explain why Server Socket class is used in Java. Describe about its three types constructors. 5