

CS IT 2015

(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? 2
- (b) Which one is the default layout manager? Write its different constructors. 2
- (c) What is Proxy ARP? 1
- (d) Why FTP does not have a message format? 1
- (e) Why cookies are used? 1

( Turn Over )

(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

- (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

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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