

**B.Sc. (Honours) Examination 2018**  
**Semester-VI**  
**Computer Science**  
**Course : BCSC-63**  
**(Web Technology)**

**Time : 3 Hours**

**Full Marks : 40**

**Questions are of value as indicated in the margin**

Answer Question No. 1 and **any four** from the rest

1. a) Compare and contrast the three types of WWW documents.  
b) What is proxy server?  
c) Why FTP creates two TCP connections? 4+2+2=8
  2. a) Briefly describe different fields in TCP segment.  
b) Write a Java applet that inputs a five-digit number from the keyboard using TextField, separate the numbers into individual digits and prints the digits separated from one another by spaces. 3+5=8
  3. a) What is the role of UA and MTA in case of electronic mail?  
b) Briefly describe the working procedure of DDNS. 4+4=8
  4. a) Design your home page using HTML containing a link to your CV and list of favorite sites.  
b) How data flow is controlled in TCP? 5+3=8
  5. Write a Java program using swing package to draw a window. The window will contain two check boxes and a submit button. The button click will identify the check box clicked and print messages accordingly. 8
  6. a) Why might you want to write a program in a machine-independent language instead of machine-dependent language?  
b) How can we make HTML server stateful?  
c) Write a Java script to calculate the LCM of two numbers inputted at runtime. It will also print the output in separate window. 2+2+4=8
  7. Write short notes on the following : 4×2=8
    - a) Client-Server communication
    - b) Java Garbage collector
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