Model Paper – 1
Hi-Tech Institute of Engineering & Technology
B.C.A. Examination
(Semester-5th) Odd Semester
Java Programming and Dynamic Webpage Design
(BCA-502)

Time: 3 Hours   **Maximum Marks: 75**

Faculty Name: Mr. Pawan Kumar

Note: Attempt questions from all sections as per instructions.

Section – A

Note: Attempt any five questions. Each question carries 3 marks.
[3x5=15]

1. Write a program in java to convert a string totally into upper case.
2. What is byte-code in java? Explain.
3. Design a web page in HTML that contains special symbols.
4. What do you mean by connection pooling? Explain
5. JAVA is not a pure object oriented programming language? Justify your answer.

Section-B

Note: Attempt two out of three questions. Each question carries 7.5 marks.   **[7.5x2=15]**

6. Define JAVA servlets. How database connectivity is done in JAVA servlets? Explain.

7. What do you mean by frame and frameset tag in HTML? Explain it with suitable example.

8. Explain the concept of handling image in java GUI application with example.

Section-C

Note: Attempt three out of five questions. Each question carries 15 marks.   **[15x3=45]**

9. (a) What is an applet? Explain the life cycle of an applet?
   (b) Write a program in java to create an event listener.

10. Write a short note on:
    (a) Exception handling in java.
    (b) Table Tag in HTML.

11. (a) Describe the delegation event model of event handling in java. How is it a better approach then the other approaches?

    (b) What do you mean by a thread and multithreading? Explain the various methods to create a thread in java.

12. (a) What do you mean by a constructor? Differentiate between default constructor and parameterized constructor with example.

    (b) What do you mean by datagram socket in JAVA? How to create a TCP and UDP connections using socket programming in JAVA? Explain.

13. (a) How many types of forms are available in html? Design an order- entry form that contains all the form controls and elements.

    (b) Define the concept of java server page. How the dynamic content is generated in JSP? Explain.