16130(J) ~~June-16~~

B. Tech 6th Semester Examination

Internet Technology (NS)

IT-322

Time : 3 Hours   Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Candidates are required to attempt five questions in all selecting one question from each of the sections A, B, C & D of the question paper and all the subparts of the questions in Section E. Use of non-programmable calculators is allowed.

SECTION - A

1. What is JAVA? Briefly describe the JVM Architecture.   (20)

2. What is overloading? Discuss, any two methods used for overloading in JAVA.   (20)

SECTION - B

3. What are packages? Discuss importing, access and interfaces of a package with relevant example.   (20)

4. Write a program in JAVA that makes use of exception sub-class.
                                              (20)

SECTION - C

5. Differentiate between Event class and adapter class. Also give a suitable example.   (20)

6. What is the importance of windows, frames and panels? Write the JAVA code, that highlights their use.   (20)

[P.T.O.]

SECTION - D

7. What are Swings? Discuss, any two components and their uses.   (20)

8. In brief, discuss the 2-tier and 3-tier architecture in a client-server model.   (20)

SECTION - E

9. Attempt all Parts. Write short notes on:

   (i)   JAVA thread model.

   (ii)   Nested try statements.

   (iii) Uncaught exceptions.

   (iv)   Multi-dimensional array.

   (v)   Type casting in JAVA.

   (vi)   Bit-wise operators in JAVA.

   (vii) Exception types in JAVA.

   (viii) Inter-thread communication in JAVA.

   (ix)   Importance of JDBC in client/server environment.

   (x)   Use of recursion in JAVA.   (10×2=20)