

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)