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May-25-0467

CS-601 (Advance Java)

B.Tech. 6th (CBCS)

Time : 3 Hours

Max. Marks : 60

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 : Attempt five questions in all, selecting one question each from section A, B, C & D. Section-E is compulsory.

SECTION - A

1. Write down history of Java. (10)

OR

2. What do you mean by Java environment. Write notes on the following:

(a) JVM

(b) JDK

(c) JRE

(10)

SECTION - B

3. Write a program using Border Layout. (10)

OR

4. Write a program to create a frame by using SWING. (10)

SECTION - C

5. What do you mean by handling HTTP requests and responses? Explain HTTP GET request and handling HTTP POST request. (10)

OR

6. Explain the various methods defined by servlet in Java servlet package. (10)

SECTION - D

7. Write and explain different types of JDBC drivers. (10)

OR

8. Create ODBC data source file. What are advantages of using JDBC with ODBC? (10)

SECTION - E (Compulsory)

9. (a) What do you mean servlet?
(b) What do you mean by SWING?
(c) How does Java reflection API work?
(d) What are advantages and potential security risks in Java reflection?
(e) Explain the difference between Callable and Runnable interfaces in Java.
(f) How do you implement a custom class loader in Java?
(g) Explain servlet life cycle.
(h) Why is Java architectural, natural and robust?
(i) Describe JComponent Class method in brief.
(j) What is Applet? (10×2=20)