[Total No. of Questions - 9]   [Total No. of Printed Pages - 2]

Dec.-23-0528
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, and D. Section - E is compulsory.

SECTION - A

1. Explain the evolution of Java and its importance to the internet.
(10)

2. Describe the object-oriented approach in Java.   (10)

SECTION - B

3. Write a detailed note on Swing components and explain their role in developing user interfaces.   (10)

4. Discuss the difference between AWT and Swing in Java. Explain why Swing is considered more advanced than AWT.
(10)

SECTION - C

5. Discuss the lifecycle of a servlet and explain the role of different methods in the servlet lifecycle.   (10)

6. How are HTTP requests and HTTP responses handled in servlets? Explain.
(10)

SECTION - D

7. Define JDBC. Mention all the steps involved in JDBC connectivity. List and explain all the JDBC components.   (10)

8. Define JDBC drivers. Mention all four types of JDBC drivers and list their advantages and disadvantages.
(10)

SECTION - E
(Compulsory question)

9. Attempt the following:

(a) What is MVC?

(b) What is the servlet API?

(c) Define ODBC.

(d) What is JDK?

(e) What is the purpose of ResultSet interface in JDBC?

(f) What is the purpose of JList component?

(g) What is JSP scriptlet tag used for?

(h) What is a layout manager?

(8×2½=20)