

Roll No. *l*
(144)

Total Pages : 04

M-190144

B.Tech. EXAMINATION, 2019

Semester VI (CBS)

ADVANCE JAVA

CS-601

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Time : 3 Hours

Maximum 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 *one* question from each Unit. Q. No. 9 is compulsory to attempt.

Unit I

1. What are the principles of OOPs ? Explain each with example. 10

Or

2. What do you mean by Java Environment ? Write notes on the following :
- (a) JRE
 - (b) JDK
 - (c) JVM. 10

Unit II

3. Write a Program using Border Layout ? 10

Or

4. Discuss in detail about SWING. 10

Unit III

5. Explain the various methods defined by servlet in javax.servlet package. 10

Or

6. Explain the complete life-cycle of servlet ? What are the basic steps for building and testing a simple servlet ? 10

Unit IV

7. Write note on JDBC-ODBC relationship ? What are the advantages of using JDBC with ODBC ? 10

Or

8. Write and explain different types of JDBC drivers ?

9. (a) Multiple choice questions (Each questions carries 2 marks) :

(i) Using mail API we cannot send mail from a Servlet.

(1) True

(2) False

(ii) Implement the Listener interface and overrides its methods is required to perform in event handling.

(1) True

(2) False

(iii) Which is a components in AWT that can contain others components like buttons, text fields, labels etc. ?

(1) Window

(2) Container

(3) Panel

(4) Frame

(iv) Which type of ServletEngine is a server that includes built-in support for servlets ?

- (1) Add-on ServletEngine
- (2) Embedded ServletEngine
- (3) Standalone ServletEngine
- (4) None of the above

(v) Which of the following is *true* about HTTP Post method ?

- (1) The POST method sends the encoded user information as a separate message to page request.
- (2) The POST method is used to submit form data normally.
- (3) Both of the above
- (4) None of the above

(b) Short answer type questions (Each questions carries 2 marks) : **2×5=10**

- (i) Mention any *two* characteristics of Java.
- (ii) Mention any *two* constructors of FlowLayout.
- (iii) Write any *two* methods of ServletConfig Interface ?
- (iv) What do you mean by delegation event model ?
- (v) Mention any *two* Swing Components.