

Roll No. /.....  
(144)

Total Pages : 04

**M-190144**

**B.Tech. EXAMINATION, 2019**

Semester VI (CBS)

ADVANCE JAVA

CS-601

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**

(3-07/9) W-M-190144

P.T.O.

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**

W-M-190144

2

#### 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. <https://www.hptuonline.com>
- (iii) Write any *two* methods of ServletConfig Interface ?
- (iv) What do you mean by delegation event model ?
- (v) Mention any *two* Swing Components.