

## B.C.A. (Part-II) Semester-IV (CBCS) Examination

## 4 BCA 3

## ADVANCED JAVA PROGRAMMING

Time : Three Hours]

[Maximum Marks : 80

**Note :—** (1) Question No. 1 is compulsory.

(2) All other questions carry equal marks.

(3) Assume suitable data wherever necessary.

1. (A) Chosse correct alternative :

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(i) Event class is defined in which of these libraries ?

(a) java.co

(b) java.lang

(c) java.net

(d) java.util

(ii) The Delegation Event model is based on the concept of \_\_\_\_\_.

(a) Source

(b) Listener

(c) Both (a) and (b)

(d) None of these

(iii) Which event listener interface is used for handling item selection events in a JCombo Box ?

(a) ActionListener

(b) ItemListener

(c) MouseListener

(d) KeyListener

(iv) Which class is used as the base class for all swing components ?

(a) Container

(b) Component

(c) JPanel

(d) JFrame

(v) Which class is used to create servers that listen for either local client **or** remote client programs ?

(a) Server Sockets

(b) http Server

(c) http Response

(d) None of the above

(vi) URL is an acronym for :

(a) Unified Restore Locator

(b) Uniform Resource Locator

(c) Uniform Restore Locator

(d) Unified Resource Locator

- (vii) What must be the first characters of database URL ?
- (a) db, (b) db :  
(c) jdbc, (d) jdbc :
- (viii) What is the role of java.sql.Result Set interface in JDBC ?
- (a) To establish a connection to the database  
(b) To execute SQL statements  
(c) To handle exceptions in JDBC operations  
(d) To represent the result of a database query
- (ix) What is the correct syntax for declaring and initializing a variable in JSP ?
- (a) < % int x = 10; % >  
(b) < % ! int x = 10 ; % >  
(c) < % int x ; x = 10 ; % >  
(d) < % int x ; x : = 10 ; % >
- (x) Which method in the http servlet class is used to handle HTTP GET requests ?
- (a) doGet ( ) (b) doPost ( )  
(c) Service ( ) (d) init ( )

1. (B) Fill in the blanks :

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- (i) \_\_\_\_\_ is the primary use of the URL connection class in Java networking.
- (ii) \_\_\_\_\_ these packages contains all the classes and methods required for even handling in java.
- (iii) Java Swing provide \_\_\_\_\_ .
- (iv) RMI Stands for \_\_\_\_\_ .
- (v) JSP Stands for \_\_\_\_\_ .

(C) Answer in **one** sentence :

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- (1) What is Keyboard Event ?
- (2) What is Checkbox ?
- (3) What is datagram packet ?
- (4) What is JDBC ?
- (5) What is Servlet API ?

2. (A) What is Event delegation model ? State and explain event classes and adapter classes. 8  
(B) Describe Awt controls (any 2) . 4

**OR**

3. (A) What is Awt state and explain awt and event handling. 8  
(B) State and explain check boxes and dialog box. 4
4. (A) Define JFC. Describe the model view controller (MVC) Architecture. 8  
(B) Define the difference between Awt and Swing. 4

**OR**

5. (A) Define swing control. Describe JPasswordField Button, check boxes and radio Button. 8  
(B) Define Scroll panes, Trees, Tables and exploring swing. 4
6. (A) Define RMI. State and explain RMI components and RMI architecture. 8  
(B) What is Datagram ? Explain datagram packet. 4

**OR**

7. (A) Define RMI classes. Write simple RMI application. 8  
(B) Define TCP/IP based server & Client. 4
8. (A) Define JDBC. State and explain JDBC concept and JDBC Architecture. 8  
(B) State and explain types of JDBC driver. 4

**OR**

9. (A) Define JDBC API. State and explain steps to create JDBC Application. 8  
(B) Define Java SQL packages. 4
10. (A) Define servlet. State and explain features of servlet and servlet life cycle. 8  
(B) Define servlet development kit. 4

**OR**

11. (A) Define servlet API. Define steps of writing servlet program. 8  
(B) Explain JSP architecture and explain try-catch block. 4