

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) Choose correct alternative:

10

- (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 :

5

- (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 :

5

- (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 JPassword field 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