

Third Year B.C.A. (Semester - I) Examination
Paper - 15BCA301
Advanced Java

Time: Three hours]

[Full Marks - 60

- N.B. :**
- i) All questions carry equal marks
 - ii) Due credit will be given to neatness & adequate dimensions.
 - iii) Assume suitable data wherever necessary.
 - iv) Diagrams & Equations should be given wherever necessary.
 - v) Use Blue/Black ink/refill only for writing the answer book.

Q.1 Select the correct alternative and rewrite the sentences. 5

- a) _____ is an interface, which is used to extend the capability of server
- i) AWT
 - ii) Servlet
 - iii) JSP
 - iv) RMI
- b) _____ is container which has a default visibility false
- i) APPLET
 - ii) WINDOW
 - iii) DIALOG
 - iv) FRAME
- c) _____ blocks are executed irrespective of whether exception has been occurred or not.
- i) try
 - ii) catch
 - iii) finally
 - iv) try & finally
- d) _____ can also be used by the hackers for tracking.
- i) Log
 - ii) Script
 - iii) Cookies
 - iv) Response
- e) _____ is a set of Java component that provide ability to create GUI.
- i) Applet
 - ii) RMI
 - iii) Swing
 - iv) JSP

- Q.2 a) What is JDBC ? Explain. 5
 b) What is the main classes of Java SQL package? Explain 6

OR

- Q.3 a) State and explain the architecture of JDBC. 5
 b) Write procedure for inserting and updating records in java using SQL package 6

- Q.4 a) What is RMI ? Explain 5
 b) Explain following with suitable example 6
 i) Frame
 ii) Stub

OR

- Q.5 a) What is event delegation model ? Explain 5
 b) Explain following with suitable example 6
 i) Panel
 ii) Skeleton

- Q.6 a) What is Servlet ? Explain 5
 b) What is Session tracking ? Explain. 6

OR

- Q.7 a) State and explain the life cycle of a servlet. 5
 b) Explain following in detail. 6
 i) Http Request
 ii) Http Response

- Q.8 a) How exceptions are handled in JSP ? Explain 5
 b) Write JSP code to display following pattern. 6

```

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
  
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OR

- Q.9 a) What are different control structures available in JSP ? Explain 5
 b) Write a JSP code to calculate factorial of a number. 6

- Q.10 a) What is Swing ? Explain in detail. 6
 b) State and explain the features of JFC. 5

OR

- Q.11 a) State and explain the components of swing. 5
 b) Write procedure to create swing application. 6
