

Roll No.

(2)

V - 6164

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B. C. A. (Fifth Semester)

EXAMINATION, Nov./Dec., 2019

Paper – BCA– 504

PROGRAMMING IN ADVANCE JAVA

Time : Three Hours

Maximum Marks : 80

Minimum Pass Marks : 32

Note– Attempt *one* question (including all parts) from each unit. The programs are to be written in Java language.

Unit – I

1. (a) What do you understand by different types of web architecture models ? 8
- (b) What is web application ? How a web application works ? 8

Or

- (a) Why do we use view component ? Explain with a suitable example. 8

P.T.O.

- (b) Discuss the benefits of web applications over desktop applications. 8

Unit – II

2. (a) What is DSN ? Why do we need it ? Write all steps for creating a DSN in the windows. 8
- (b) How do we obtain a connection to any database by using JDBC ? Explain with java code. 8

Or

- (a) What is JDBC ? Explain all the required classes and interfaces used by JDBC. http://www.jiwajionline.com 8
- (b) Why do we use statement object in JDBC ? Explain with some java code. 8

Unit – III

3. (a) What are server side extension programs ? Why do we need it ? 8
- (b) Define Servlet. Write the steps to create a servlet application. 8

Or

Explain any *two* of the following– 16

- (i) Generic servlet class

- (ii) Loading of servlet
- (iii) Initialization of servlet.

Unit - IV

- 4. (a) Explain the need, benefits and advantages of JSP. 8
- (b) What do you understand by JSP page translation stage ? Explain. 8

Or

- (a) Explain JSP directives with suitable example. 8
- (b) Write a JSP code that adds two numbers entered through form (html form). 8

Unit - V

- 5. Define Java Bean. Write a sample code for java beans and also explain java beans API. 16

Or

Discuss all the describing tags in detail with the help of example. 16

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