

TCS-603/TIT-603**B. TECH. (CS/IT) (SIXTH SEMESTER)
END SEMESTER EXAMINATION, 2018****ADVANCE JAVA PROGRAMMING****Time : Three Hours****Maximum Marks : 100**

Note :(i) This question paper contains five questions with alternative choice.

(ii) All questions are compulsory.

(iii) Instructions on how to attempt a question are mentioned against it.

(iv) Each part carries **ten** marks. Total marks assigned to each question are **twenty**.

1. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)

(a) With illustrations explain multithreading in java, interrupting threads, thread states.

(b) What are similarities and differences between ArrayList and Vector ? List the constructors of ArrayList. Write a code for user defined class objects in ArrayList.

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(c) (i) Explain I/O Streams with suitable examples.

(ii) Wrapper Class.

2. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)

(a) How objects are created in java script ? Create an HTML page with a textbox and a command button : When the user gives a number and presses the Calculate button, it has to alert the sum.

(b) What is XML ? Discuss the features and advantages of XML. Create an XML document for the following data :

| | |
|---------|-------------------|
| Student | Registration Form |
| Name | Rahul |
| Age | 22 |
| Gender | Male |
| Course | Java Programming |

(c) Explain the following :

(i) Why do we use CSS ?

(ii) HTML List.

3. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)

(a) How many types of drivers are available for JDBC programmers ? Discuss the

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various steps involved in connecting java application and database with code snapshot.

(b) Write a JDBC program for the following operations :

(i) Insert a row in table.

(ii) Delete a row in table.

(iii) Update a row in table.

(iv) Read data from the table

(c) Explain the following :

(i) Struts framework

(ii) Struts-config.xml

4. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)

(a) Explain life cycle of JSP. Discuss the advantages of JSP over Servlet.

(b) Discuss the various JSP implicit objects created by web container.

(c) Explain JSP scripting elements with code snapshot.

5. Attempt any *two* questions of choice from (a), (b) and (c). (2×10=20 Marks)

(a) What is a servlet ? Discuss the advantages of Servlet over CGI. Explain servlet life cycle with life cycle methods.

(b) Write short notes on the following :

(i) GenericServlet and HTTPServlet

(ii) Cookies in Servlet

(c) Write a Servlet which display "Hello World!" on browser and console both. Write with deployment descriptor.