



Third Semester MCA Degree Examination, July/August 2022
Advances in Java

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Define Servlet. Explain the process servlet life cycle. (10 Marks)
b. Briefly explain the different HTTP request headers and different methods of handle it in servlet. (10 Marks)

OR

- 2 a. Briefly explain any five HTTP status codes. (10 Marks)
b. What is Session Tracking? Explain different techniques of session tracking with the help of example. (10 Marks)

Module-2

- 3 a. Explain the needs, benefits and advantages of JSP. (10 Marks)
b. Explain different types of JSP scripting elements with an example. (10 Marks)

OR

- 4 a. Write any five different between Servlet and JSP. (10 Marks)
b. Construct Scriptlets to make parts of the JSP page conditional. (10 Marks)

Module-3

- 5 a. Explain JSP Directives element. (10 Marks)
b. Explain the following page directive attributes along with an example program.
i) import ii) session iii) extends iv) isErrorPage v) isThreadsafe (10 Marks)

OR

- 6 a. Explain about JAR's in detail. (10 Marks)
b. Define Java Bean and explain the terms introspection and customizers. Write sample code for Java Bean. (10 Marks)

Module-4

- 7 a. What are annotations? Explain Built-in annotations. (10 Marks)
b. Explain the steps writing JDBC program with sample code. (10 Marks)

OR

- 8 a. Explain JDBC prepared statement object. (10 Marks)
b. Briefly explain basic and advanced JDBC data types. (10 Marks)

Module-5

- 9 Briefly explain the following terms : i) Message Driven Bean ii) Dependency injection
iii) Interceptors iv) Naming and object stores. (20 Marks)

OR

- 10 a. List the difference between stateless session bean and stateful session bean. (10 Marks)
b. Explain the life cycle of Message Driven Bean. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

