



DBK-003-0004502

Seat No. _____

B. Sc. (I.T.) (Sem. V) Examination

June - 2022

Advanced Java Programming : CS-26

(Old Course)

Faculty Code : 003

Subject Code : 0004502

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instructions : (1) Attempt any five from following questions.
(2) Each question carries equal marks.

- 1 (a) Attempt the following : 4
- (1) What is JDBC ?
 - (2) Parameterized query can be executed by _____.
 - (3) What does setAutoCommit (false) do ?
 - (4) Which is an object, acts as a gateway for the client side, all the outgoing requests are routed through it and it resides at the client side and represents the remote object?
- (b) Attempt the following : 2
What is Skeleton ?
- (c) Attempt the following : 3
Write difference between statement and Prepared Statement interfaces.
- (d) Attempt the following : 5
List out and explain type of statement with example.
- 2 (a) Attempt the following : 4
- (1) Stored procedure can be called by _____.
 - (2) Which JDBC driver can be used in Servlet and Applet both ?
 - (3) Type _____ driver is the fastest one.
 - (4) _____ exception is thrown by a remote method.

- (b) Attempt the following : 2
Write 5 steps to connect java application with any database using JDBC.
- (c) Attempt the following : 3
Differentiate RMI registry and OS agent.
- (d) Attempt the following : 5
Write a java program that display record of the given rollno.
[Table name: Stud] [Fields : rollno, name, class, div]
- 3** (a) Attempt the following : 4
(1) Which class provides stream to read binary data such as image etc. from the request object ?
(2) Write use of sendRedirect() method.
(3) The life cycle of the servlet is managed by _____.
(4) How many objects of a servlet is created ?
- (b) Attempt the following : 2
What is the difference between PrintWriter and Servlet Output Stream ?
- (c) Attempt the following : 3
Differentiate GET and POST methods.
- (d) Attempt the following : 5
Explain servlet life cycle.
- 4** (a) Attempt the following : 4
(1) When is Servlet Object created ?
(2) Servlets are used to generate dynamic responses to HTTP requests. (State whether True/False)
(3) _____ is stateless protocol.
(4) MIME stands for _____.
- (b) Attempt the following : 2
Explain Servlet Exception.
- (c) Attempt the following : 3
Differentiate Generic Servlet and Http Servlet.
- (d) Attempt the following : 5
Explain Session Tracking with example.

- 5 (a) Attempt the following : 4
- (1) What is filter ?
 - (2) If a web application has Servlet, Listeners and Filter classes. Which of them will be instantiated first ?
 - (3) _____ object used by the filters to get the next component invoked.
 - (4) Explain attribute Added() method.
- (b) Attempt the following : 2
- Give the common task of the filter.
- (c) Attempt the following : 3
- Explain Servlet Request Attribute Listener.
- (d) Attempt the following : 5
- Differentiate Filter and Listeners in servlet.
- 6 (a) Attempt the following : 4
- (1) What is Session Timeout ?
 - (2) What is Request Dispatcher ?
 - (3) _____ is an object that is invoked at the preprocessing and postprocessing of the request.
 - (4) _____ package is used for Http Session Activation Listener.
- (b) Attempt the following : 2
- Write servlet listener configuration file.
- (c) Attempt the following : 3
- Explain Filter Config.
- (d) Attempt the following : 5
- Explain Event of listener.
- 7 (a) Attempt the following : 4
- (1) Default value of autoFlush() is _____.
 - (2) _____ action variables is used to include a file in JSP.
 - (3) How we specify directive in JSP ?
 - (4) Which scope is the most restrictive scope in JSP ?
- (b) Attempt the following : 2
- Explain JSP declaration tag with example.
- (c) Attempt the following : 3
- Explain scope of the JSP object.
- (d) Attempt the following : 5
- Explain JSP scriptlet with example.

- 8 (a) Attempt the following : 4
- (1) What is ContentType attribute ?
 - (2) Why DB connections are not written directly in JSP ?
 - (3) JSP have _____ number of implicit objects.
 - (4) _____ is the initial contact point for handling a web request in a page centric-architecture.
- (b) Attempt the following : 2
- Differentiate include directive and include action.
- (c) Attempt the following : 3
- Write short note on Exception handling in JSP.
- (d) Attempt the following : 5
- Explain any two JSP implicit objects with example.
- 9 (a) Attempt the following : 4
- (1) MVC stands for _____.
 - (2) List out JSTL tags.
 - (3) What is model ?
 - (4) Write main purpose of using EL.
- (b) Attempt the following : 2
- Explain advantages of MVC.
- (c) Attempt the following : 3
- Explain <c:set> with example.
- (d) Attempt the following : 5
- List out JSTL tag library and give appropriate example.
- 10 (a) Attempt the following : 4
- (1) Write use of <c:url>.
 - (2) <c:choose> tag is just like a _____ java conditional statement.
 - (3) _____ tag is useful to store value of variable.
 - (4) What is the use of <c:catch> ?
- (b) Attempt the following : 2
- Explain <c:remove>.
- (c) Attempt the following : 3
- Explain advantages of JSTL.
- (d) Attempt the following : 5
- Explain basic operators in JSP – Expression Language.