

B.Sc.(IT) Semester - 5 (Remedial) (CBCS) Examination**March/April-2024 (Old Course)****CS-26 ADVANCED JAVA PROGRAMMING (CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que-1(A) Answer following Questions (04)
- (1) Give full form of RMI
 - (2) _____ provides methods to get metadata from the ResultSet object.
 - (3) Give full form of JDBC.
 - (4) _____ method creates a statement object that can be used to execute SQL queries.
- Que-1(B) Answer Any One (02)
- (1) Explains stubs and skeleton.
 - (2) Explain prepared Statement.
- Que-1(C) Answer Any One (03)
- (1) Explain ResultSet with example.
 - (2) Explain Database Meta Data and ResultSet Meta Data.
- Que-1(D) Answer Any One (05)
- (1) Write short note on RMI Architecture.
 - (2) Explain Database drivers and JDBC APIs for Database connectivity.
- Que-2(A) Answer following Questions (04)
- (1) The servlet is initialized with _____ method.
 - (2) The _____ method in servlets is used to process the HTTP POST requests
 - (3) _____ method returns the value of a field/parameter from the request
 - (4) A servlet can use _____ object to help it provide a response to the client
- Que-2(B) Answer Any One (02)
- (1) Explain HTTP status code.
 - (2) Explain how to use cookie to remember username & password.
- Que-2(C) Answer Any One (03)
- (1) Explain Servlet life cycle.
 - (2) Explain how to use servlets to generate JPEG images.
- Que-2(D) Answer Any One (05)
- (1) How to handle client Request and working with request headers.
 - (2) Explain use of session tracking. Explain session tracking API.
- Que-3(A) Answer following Questions (04)
- (1) The _____ method contains the code that implements the filter.
 - (2) HttpServletRequest extends the _____ to provide request information for HTTP servlets.
 - (3) State the name of methods which are the lifecycle methods of filters.
 - (4) _____ method will be executed in both preprocessing and postprocessing of request.
- Que-3(B) Answer Any One (02)
- (1) Explain HttpSessionListener.
 - (2) Explain ServletRequestListener.

- Que-3(C) Answer Any One (03)
- (1) Explain filters using ServletContextListener.
 - (2) Explain ServletContextAttributeListener with example.
- Que-3(D) Answer Any One (05)
- (1) Explain how to use filters for pre and post processing of request.
 - (2) Write short note on listeners using ServletContextListener.
- Que-4(A) Answer following Questions (04)
- (1) _____ includes a file at the time the page is requested.
 - (2) JSP EL allows you to create _____ & _____ expressions.
 - (3) _____ provide directions and instructions to the container, telling it how to handle certain aspects of the JSP processing.
 - (4) A _____ tag is used to execute java source code in JSP.
- Que-4(B) Answer Any One (02)
- (1) Explain JSP comments and expressions.
 - (2) Explain the use of JSP expression language.
- Que-4(C) Answer Any One (03)
- (1) Explain JSP directives.
 - (2) Explain how to process XML data in JSP.
- Que-4(D) Answer Any One (05)
- (1) Explain how to use JavaBeans in JSP.
 - (2) Explain how to create and use custom tag in JSP.
- Que-5(A) Answer following Questions (04)
- (1) Give full form of MVC.
 - (2) Give full form of JSTL.
 - (3) List out EL variable scope.
 - (4) _____ JSTL tag is used for displaying values contained in variables or the result of an implicit expression.
- Que-5(B) Answer Any One (02)
- (1) Explain bean properties in EL.
 - (2) Explain c:forEach and c:Tokens.
- Que-5(C) Answer Any One (03)
- (1) Explain how to share the data between servlet and JSP.
 - (2) Explain collectin and implicit objects in EL.
- Que-5(D) Answer Any One (05)
- (1) Write short note on JSTL tags.
 - (2) Write short note on MVC architecture for web application using servlet and JSP.
