

**B.Sc.(IT) Semester - 5 (CBCS) Examination****July-2025 (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) Attempt following questions. (04)
- (1) RMI stands for \_\_\_\_\_.
  - (2) JDBC stands for \_\_\_\_\_.
  - (3) Which method is used to load the driver?
  - (4) Which interface is used to call stored procedure in JDBC?
- Que-1(B) Attempt following. (Attempt any one) (02)
- (1) Explain Stub and Skeleton.
  - (2) Explain ResultSetMetaData. Attempt following.
- Que-1(C) Attempt following. (Attempt any one) (03)
- (1) Explain Prepared Statement.
  - (2) Explain Callable Statement with an example.
- Que-1(D) Attempt following. (Attempt any one) (05)
- (1) Describe Architecture of RMI.
  - (2) Explain types of JDBC Drivers.
- Que-2(A) Attempt following questions. (04)
- (1) init method is the life cycle method of the \_\_\_\_\_ interface.
  - (2) What is servlet?
  - (3) Non-persistent cookie is valid for \_\_\_\_\_ session only. It is removed each time when user closes the browser.
  - (4) API stands for \_\_\_\_\_.
- Que-2(B) Attempt following. (Attempt any one) (02)
- (1) List name of packaging in Servlets.
  - (2) What is URL Encoding?
- Que-2(C) Attempt following. (Attempt any one) (03)
- (1) Describe any three method of ServletResponse interface.
  - (2) Describe any three method of ServletRequest interface.
- Que-2(D) Attempt following. (Attempt any one) (05)
- (1) Explain Servlet Life Cycle.
  - (2) Explain cookies and session tracking in servlets.
- Que-3(A) Attempt following questions. (04)
- (1) A \_\_\_\_\_ is an object that is invoked at the preprocessing and postprocessing of a request.
  - (2) The HttpSessionEvent is notified when session object is changed. (True / False)
  - (3) The ServletContextEvent is notified when web application is deployed on the server. (True / False)
  - (4) HttpSessionAttributeListenerInterface is used for receiving notification events about HttpSession attribute changes. (True / False)
- Que-3(B) Attempt following. (Attempt any one) (02)
- (1) List out methods of filter interface.
  - (2) List out methods of HttpSessionAttributeListener Interface.

- Que-3(C) Answer the following questions. (any one) (03)  
(1) Explain HttpSessionListener.  
(2) Explain ServletRequestListener.
- Que-3(D) Answer the following questions. (any one) (05)  
(1) Explain Using Filters for pre and post processing.  
(2) Explain HttpSessionAttributeListener interface.
- Que-4(A) Answer the following questions. (04)  
(1) JSP stands for \_\_\_\_\_  
(2) <%-- comment --%> A JSP comment. Ignored by the JSP engine. (TRUE/FALSE)  
(3) <!-- comment --> An HTML comment. Ignored by the browser. (TRUE/FALSE)  
(4) <% ..... %> use for JSP scriptlets. (TRUE/FALSE)
- Que-4(B) Answer the following questions. (any one) (02)  
(1) What is template text in JSP?  
(2) Explain JSP Expression with example.
- Que-4(C) Answer the following questions. (any one) (03)  
(1) Explain custom tags.  
(2) Explain JSP directives.
- Que-4(D) Answer the following questions. (any one) (05)  
(1) Explain JSP life cycle.  
(2) Explain JSP action tags.
- Que-5(A) Answer the following questions. (04)  
(1) MVC Stands for \_\_\_\_\_  
(2) JSTL stands for \_\_\_\_\_  
(3) EL stands for \_\_\_\_\_  
(4) The most common operators in JSP EL are . and []. (TRUE/FALSE)
- Que-5(B) Answer the following questions. (any one) (02)  
(1) What is JSP expression language?  
(2) Explain <c:forEach>, <c:forEachTokens> Tag
- Que-5(C) Answer the following questions. (any one) (03)  
(1) Explain <c:import>, <c:remove> and <c:set> tag  
(2) What are the implicit EL objects in JSP?
- Que-5(D) Answer the following questions. (any one) (05)  
(1) Explain MVC architecture.  
(2) Explain Data Sharing Between Servlets and JSP with example

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