

B.Sc.(IT) Semester - 5 (Remedial) (CBCS) Examination**March/April-2022(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) |
| | <ol style="list-style-type: none">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) |
| | <ol style="list-style-type: none">1. Explain Stub and Skeleton.2. Explain ResultSetMetaData. | |
| Que-1 (C) | Attempt following. (Attempt any one) | (03) |
| | <ol style="list-style-type: none">1. Explain Prepared Statement.2. Explain Callable Statement with an example. | |
| Que-1 (D) | Attempt following. (Attempt any one) | (05) |
| | <ol style="list-style-type: none">1. Describe Architecture of RMI.2. Explain types of JDBC Drivers. | |
| Que-2 (A) | Attempt following questions. | (04) |
| | <ol style="list-style-type: none">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 _____. | (02) |
| Que-2 (B) | Attempt following. (Attempt any one) | |
| | <ol style="list-style-type: none">1. List name of packaging in Servlets.2. What is URL Encoding? | (03) |
| Que-2 (C) | Attempt following. (Attempt any one) | |
| | <ol style="list-style-type: none">1. Describe any three method of ServletResponse interface.2. Describe any three method of ServletRequest interface. | (05) |
| Que-2 (D) | Attempt following. (Attempt any one) | |
| | <ol style="list-style-type: none">1. Explain Servlet Life Cycle.2. Write login.html file which accept username and password. Call Servlet file to print Welcome message with name of the user when user submit login.html file. | |
| Que-3 (A) | Attempt following questions. | (04) |
| | <ol style="list-style-type: none">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) Attempt following. (Attempt any one) (03)
1. Explain HttpSessionListenerInterface.
 2. Explain HttpSessionAttributeListenerInterface.
- Que-3 (D) Attempt following. (Attempt any one)
1. Difference between Filter and Listener in Servlet.
 2. Explain Interface ServletContextAttributeListener with an example. (05)
- Que-4 (A) Attempt following questions (04)
1. JSP stands for _____.
 2. To add Java code in JSP page which tag is used?
 3. Using _____, To set comment in JSP.
 4. The _____ are messages that tells the web container how to translate a JSP page into the corresponding servlet.
- Que-4 (B) Attempt following. (Attempt any one) (02)
1. List out JSP Action Tag.
 2. Explain <jsp:param> tag of JSP.
- Que-4 (C) Attempt following. (Attempt any one) (03)
1. Explain Scope of JSP Object
 2. Describe page directive in JSP.
- Que-4 (D) Attempt following. (Attempt any one)
1. Explain Life Cycle of JSP. (05)
 2. How to define Custom Tag in JSP? Explain with an example.
- Que-5 (A) Attempt following questions. (04)
1. JSTL stands for _____.
 2. MVC stands for _____.
 3. The _____ JSTL tag add the parameter in a containing 'import' tag's url.
 4. The _____ JSTL tag removes the variable from either a first scope or a specified scope.
- Que-5 (B) Attempt following. (Attempt any one) (02)
1. Write use of <c:out> tag
 2. Write use of <c:url> tag
- Que-5 (C) Attempt following. (Attempt any one) (03)
1. Explain RequestDispatcher in detail.
 2. Write use of <c:forEach> tag with an example.
- Que-5 (D) Attempt following. (Attempt any one) (05)
1. Explain data sharing between jsp and servlet with an example.
 2. Explain basic operators in JSP – Expression Language.
