

[4]

- Q.4 i. List and explain directive tags of JSP. **3**
ii. Explain life cycle of JSP in detail. **7**
OR iii. Write a JSP to find the given number is prime or not. Accept the number through html. **7**
- Q.5 i. What do you mean by session handling? Is it necessary? How it is handled? **4**
ii. How to code a java bean? Write a JSP using JavaBean? **6**
OR iii. What do you mean by JSTL? How to code JSTL tag? Explain with the help of suitable example. **6**
- Q.6 Attempt any two:
i. Explain JDBC architecture. **5**
ii. Write the purpose of following JDBC classes: **5**
(a) DriverManager (b) ResultSet
(c) Statement (d) Connection
(e) PreparedStatement.
iii. Explain the steps of database connectivity. **5**

Total No. of Questions: 6

Total No. of Printed Pages:4

Enrollment No.....



Faculty of Science
End Sem (Odd) Examination Dec-2018
CA3EL01 Advanced Java
Programme: BCA Branch/Specialisation: Computer Application

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. To shutdown the tomcat sever the command needed for windows is: **1**
(a) shutdown.bat (b) shutdown.sh
(c) close.bat (d) None of these
- ii. Netbeans is: **1**
(a) Jar file (b) IDE
(c) Web support plugin (d) None of these
- iii. Which method in the HttpServlet class services the HTTP POST request: **1**
(a) doPost(ServletRequest, ServletResponse)
(b) doPOST(ServletRequest, ServletResponse)
(c) serviceRequest(HttpServletRequest,HttpServletResponse)
(d) doPost(HttpServletRequest, HttpServletResponse)
- iv. Which of the following deployment descriptor snippets correctly associates a servlet implemented by a class named com.abc.SalesServlet with the name SalesServlet? **1**
(a) `<servlet>`
`<servlet-name>com.abc.SalesServlet</servlet-name>`
`<servlet-class>SalesServlet</servlet-class>`
`</servlet>`
(b) `<servlet>`
`<servlet-name>SalesServlet</servlet-name>`
`<servlet-package>com.abc.SalesServlet</servlet-package>`
`</servlet>`

P.T.O.

[2]

- (c) `<servlet>`
 `<servlet-name>SalesServlet</servlet-name>`
 `<servlet-class>com.abc.SalesServlet</servlet-class>`
 `</servlet>`
- (d) `<servlet>`
 `<servlet-name class="com.abc.SalesServlet">`
 `SalesServlet</servlet-name>`
 `</servlet>`
- v. `<%= %>` tag is called **1**
(a) JSP scriptlet (b) JSP expression
(c) JSP directive (d) JSP comment
- vi. Consider the following code and select the correct statement about it **1**
from the option below:
`<html>`
`<body>`
 `<%! int aNum=5 %>`
 The value of aNum is `<%= aNum %>`
`</body>`
`</html>`
(a) It will print "The value of aNum is 5" to the output.
(b) It will flag a compile time error because of incorrect declaration.
(c) It will throw runtime exception while executing the expression
(d) It will not flag any compile time errors and will not print anything to the output
- vii. Consider the following code: **1**
`Public void doGet(HttpServletRequest req , HttpServletResponse res)`
`{`
 `HttpSession session = req.getSession();`
 `ServletContext ctx = this.getServletContext();`
 `if(req.getParameter("userid")!=null) {`
 `String userid = req.getParameter("userid");`
 `// 1`
 `}`
`}`

[3]

- You want userid parameter to be available only to the requests that come from the same user. Which of the following lines would you insert at //1?
- (a) `session.setAttribute("userid",useri(d);`
(b) `req.setAttribute("userid",useri(d);`
(c) `ctx.addAttribute("userid",useri(d);`
(d) `session.addAttribute("userid",useri(d);`
- viii. What JSTL stands for? **1**
(a) JavaServer Pages standard tag library.
(b) JSP tag library
(c) Java standard tag library
(d) None of these
- ix. Type 4 driver is called **1**
(a) JDBC-ODBC bridge driver
(b) A native protocol partly java driver
(c) A net protocol all java driver
(d) Native protocol all partly Java driver
- x. To see the table contents we need a class: **1**
(a) ResultSet (b) Connection
(c) Statement (d) PreparedStatement
- Q.2 i. How to set new user for tomcat? **2**
ii. What do you mean by deployment descriptor? What is the purpose of using it in web application development? **3**
- iii. How to manually deploy run a web application? **5**
- OR iv. Write down the steps of the installation of the tomcat server. **5**
- Q.3 i. Explain servlet life cycle in brief. **2**
ii. What do you mean by servlet? What is the role of servlet in model view controller? **8**
- OR iii. Write a servlet program to display the factorial of a given number. **8**
Accept the number through html.

P.T.O.

Marking Scheme
CA3EL01 Advanced Java

- Q.1 i. To shutdown the tomcat sever the command needed for windows is: **1**
(a) shutdown.bat
- ii. Netbeans is: **1**
(b) IDE
- iii. Which method in the HttpServlet class services the HTTP POST request: **1**
(d) doPost(HttpServletRequest, HttpServletResponse)
- iv. Which of the following deployment descriptor snippets correctly associates a servlet implemented by a class named com.abc.SalesServlet with the name SalesServlet? **1**
(c) `<servlet>`
 `<servlet-name>SalesServlet</servlet-name>`
 `<servlet-class>com.abc.SalesServlet</servlet-class>`
 `</servlet>`
- v. `<%= %>` tag is called **1**
(b) JSP expression
- vi. Consider the following code and select the correct statement about it from the option below: **1**
`<html>`
`<body>`
 `<%! int aNum=5 %>`
 The value of aNum is `<%= aNum %>`
`</body>`
`</html>`
(b) It will flag a compile time error because of incorrect declaration.
- vii. Consider the following code: **1**
Public void doGet(HttpServletRequest req , HttpServletResponse res)
{
 HttpSession session = req.getSession();
 ServletContext ctx = this.getServletContext();
 if(req.getParameter("userid")!=null)

- ```

{
 String userid = req.getParameter("userid");
 //1
}

```
- You want userid parameter to be available only to the requests that come from the same user. Which of the following lines would you insert at //1?
- (a) session.setAttribute("userid",useri(d);
- viii. What JSTL stands for? **1**  
(c) Java standard tag library
- ix. Type 4 driver is called **1**  
(d) Native protocol all partly Java driver
- x. The class responsible to show the data of the table: **1**  
(a) ResultSet
- Q.2 i. Steps of setting new user **2**  
ii. Introduction deployment descriptor **1 mark** **3**  
    Purpose of using it in web application development **2 marks**
- iii. Process of manual deployment **3 marks** **5**  
    Steps of running the web application **2 marks**
- OR iv. Steps of the installation of the server. **5**  
    Steps of installation 1 for each point. **(1 mark \* 5)**
- Q.3 i. Life cycle steps **1 mark** **2**  
    Diagram. **1 mark**  
ii. Servlet **3 marks** **8**  
    Role of servlet in model view controller **5 marks**
- OR iii. Servlet program **8**
- Q.4 i. Three directive tags of JSP **1 mark for each** **(1 mark \* 3)** **3**  
ii. Life cycle diagram **7**  
    Explanation
- OR iii. JSP to find the given number is prime or not **7**

|     |      |                                                              |                |          |
|-----|------|--------------------------------------------------------------|----------------|----------|
| Q.5 | i.   | Session handling                                             | 1 mark         | <b>4</b> |
|     |      | Necessity                                                    | 1 mark         |          |
|     |      | It is handled                                                | 2 marks        |          |
|     | ii.  | Code a java bean                                             | 2 marks        | <b>6</b> |
|     |      | JSP using JavaBean                                           | 4 marks        |          |
| OR  | iii. | JSTL                                                         | 2 marks        | <b>6</b> |
|     |      | To code JSTL tag                                             | 2 marks        |          |
|     |      | Example                                                      | 2 marks        |          |
| Q.6 |      | Attempt any two:                                             |                |          |
|     | i.   | JDBC architecture.                                           |                | <b>5</b> |
|     | ii.  | Write the purpose of following JDBC classes: 1 mark for each |                | <b>5</b> |
|     |      | (a) DriverManager                                            | (b) ResultSet  |          |
|     |      | (c) Statement                                                | (d) Connection |          |
|     |      | (e) PreparedStatement.                                       |                |          |
|     |      | (1 for each.)                                                |                |          |
|     | iii. | Steps of database connectivity.                              |                | <b>5</b> |

\*\*\*\*\*