Enrollment No......................................

Faculty of Engineering

End Sem (Even) Examination May-2018

CA5EL09 Advanced Java

Programme: MCA   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.   In Apache tomcat, Apache is: **1**
(a) Web container   (b) Web server(c) IDE   (d) None of these

ii.   To run the server the command that we use in ubuntu platform is: **1**
(a) sh startup.bat   (b) startup.sh
(c) sh startup.sh   (d) None of these

iii.   Which technology do we mix our business logic with the presentation logic?   **1**
(a) Servlet   (b) JSP
(c) Both (a) & (b)   (d) None of these

iv.   Which of the following package contains servlet classes?   **1**
(a) javax.servlet   (b) javax.servlet.http
(c) Both (a) and (b)   (d) None of these

v.   Which tag is used to execute java source code in JSP?   **1**
(a) Declaration tag   (b) Scriptlet tag
(c) Expression tag   (d) None of the these

vi.   A JSP page consists of which tags?   **1**
(a) HTML tag   (b) JSP tag
(c) Both (a) & (b)   (d) None of these

vii.   Which of the following is not a component/class of JDBC API?   **1**
(a) DriverManager   (b) Driver   (c) Connection(d) Transaction

viii.   Which of the following type of JDBC driver is also called type 3 JDBC driver?   **1**
(a) JDBC-ODBC bridge Driver
(b) Native API partly java Driver
(c) JDBC-Net, pure Java Driver
(d) Native protocol pure java Driver

P.T.O.

ix.   While developing a web application name HMS (Hostel Management System) if root folder name is HMS in which folder we will put it in the server: **1**
(a) WEB-INF (b) classes   (c) webapps   (d) None of these   **1**

x.   web.xml is also called:
(a) Deployment Descriptor   (b) Web app descriptor
(c) Directory structure   (d) None of these

Q.2   i.   What do you mean by web application?   **2**
ii.   How to manually deploy and run a web application.   **3**
iii.   What is the advantage of using IDE for java web development?   **5**
OR   iv.   Explain the role of web server for java web development and explain installation steps in brief.   **5**

Q.3   i.   Differentiate the role of Web browser and Web Server.   **2**
ii.   How a Servlet does redirection of web pages? Explain with the help of suitable example.   **8**
OR   iii.   What do you mean by response redirection & request dispatching?   **8**

Q.4   i.   Differentiate between JSP and Servlet.   **3**
ii.   What are the JSP elements? Explain directives in the category.   **7**
OR   iii.   Write a JSP program for displaying the table of a number input from table.html.   **7**

Q.5   i.   Write the advantage of JDBC API.   **4**
ii.   Write and explain the steps for java database connectivity with example.   **6**
OR   iii.   What is JDBC? Explain the architecture of JDBC in detail.   **6**

Q.6   Write short notes on any two:
i.   Web.xml and Context.xml.   **5**
ii.   Directory Structure of website.   **5**
iii.   Database design for a sample Web application (by considering suitable example).   **5**

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Marking Scheme
CA5EL09 Advanced JAVA

Q.1   i.   In Apache tomcat, Apache is: **1**
(b) Web server

ii.   To run the server the command that we use in ubuntu platform is: **1**
(c) sh startup.sh

iii.   Which technology do we mix our business logic with the presentation logic?   **1**
(a) Servlet

iv.   Which of the following package contains servlet classes?   **1**
(c) Both a and b

v.   Which tag is used to execute java source code in JSP?   **1**
(b) Scriptlet tag

vi.   A JSP page consists of which tags?   **1**
(c) Both (a) and (b)

vii.   Which of the following is not a component/class of JDBC API?   **1**
(d) Transaction

viii.   Which of the following type of JDBC driver is also called type 3 JDBC driver?   **1**
(c) JDBC-Net, pure Java Driver

ix.   While developing a web application name HMS(Hostel Management System) if root folder name is HMS in which folder we will put it in the server: **1**
(c) webapps

x.   web.xml is also called: **1**
(a) Deployment Descriptor

Q.2   i.   What do you mean by web application   **2**
Concept   1 mark
Explanation   1 mark

ii.   How to manually deploy and run a web application.   **3**
Steps of deploying   2 marks
Running   1 mark

iii.   What is the advantage of using IDE for java web development?   **5**
Any 5 points each point 1 mark   (1 mark * 5)

OR   iv.   Role of web server for java web development   2 marks   **5**
Installation steps   3 marks

Q.3   i.   Differentiate the role of Web browser and Web Server   1 mark   **2**
Working of web browser and server   1 mark

ii.   Servlet does redirection of web pages   4 marks   **8**
Example   4 marks

OR   iii.   Response redirection with example   4 marks   **8**
Request dispatching with example   4 marks

Q.4   i.   Differentiate between JSP and Servlet.   **3**
[Difference in minimum 3 points. each point 1 mark].   (1 mark * 3)

ii.   Explanation of JSP elements   2 marks   **7**
Directives in the category with example   5 marks

OR   iii.   JSP program (Program code)   **7**

Q.5   i.   Write the advantage of JDBC API.   **4**
Any four point. One point for one mark   (1 mark * 4)

ii.   Steps for java database connectivity.   **6**

OR   iii.   JDBC   3 marks   **6**
Architecture of JDBC   3 marks

Q.6   Write short notes. (Attempt any two):

i.   Web.xml and Context.xml. [Short note]   **5**
ii.   Directory Structure [Short Note]   **5**
iii.   Database design for a sample Web application. [Short Note]   **5**