

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
MCA., Winter 2017 – 18 Examination

Semester: 4
Subject Code: 05201251
Subject Name: Advanced Java Programming

Date: 08/01/2018
Time: 02:00PM to 04:30PM
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Answer the following:**A. Write short answers.****[05]**

1. What is JDBC?
2. List advantages of servlet.
3. Explain various types of cookies.
4. What is the use of Filter?
5. List any 2 advantages of REST framework.

B. Answer the following: (Each of 01 marks)**[10]**

1. Full form of JSP.
 - a) Java Servlet Programming b) Java Service Package
 - c) Java Server Pages d) Java Service Provider
2. Which packages contain the JDBC classes?
 - a) java.jdbc and javax.jdbc b) java.jdbc and java.jdbc.sql
 - c) java.sql and javax.sql d) java.rdb and javax.rdb
3. JSP is basically used for
 - a) implementing business logic b) to make view
 - c) to store data d) All of the above
4. Which of the following method is called once in servlet life cycle?
 - a) init b) service c) redirect d) doGet
5. Which of the following annotation of JAX RS API is used to annotate a method to get the relative path of the resource class/method?
 - a) @Path b) @GET c) @PUT d) @POST
6. JDBC is a programming language. True/False?
7. Servlet is client side technology. True/False?
8. A bean may have methods apart from constructor and setter and getter methods. True/False?
9. A windows application creation or a web application creation is mandatory in order to test a web service. True/False?
10. Web Services are interoperable and extensible. True/False?

Q.2 Answer the followings**[15]**

1. Describe any 3 JDBC API components. **(03)**
2. How does HTTP Servlet handle client requests? **(03)**
3. What are JSTL formatting tags? **(03)**
4. When doGet() method of servlet to be called? **(02)**
5. What is JDBC Driver? **(02)**
6. How to read http header information in servlet? **(02)**

Q.3 Answer the following. (Any three) (Each of 05 marks)**[15]**

1. What are JSP directives? Explain different types of directives with example.
2. What are the steps to connect to the database in java?
3. What is a JSP custom tag? What is JSP Expression Language?
4. What are cookies? How to create and use cookies in java servlets?

Q.4 Answer the following.**A. What are the JDBC statements? Explain with examples.****[05]****B. Explain servlet life cycle with example program.****[10]****OR****B. Explain JSP Architecture in detail.****[10]**