

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

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

Date: 18/05/2018
Time: 10:30am to 1:00pm
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.**

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.

[05]**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]**