LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FOURTH SEMESTER – APRIL 2017

CA 4954- ADVANCED JAVA

Date: 27-04-2017   Dept. No.   Max. : 100 Marks
Time: 09:00-12:00

PART-A

Answer ALL Questions: **10*2=20**

1. What are the types of JAVA EE containers?
2. Mention the basic steps to use JDBC.
3. Define servlet. What are the primary servlet methods?
4. What is a session?
5. What is JSF? List its elements.
6. Define backing bean. State its use.
7. What is EJB? State its use.
8. Define activation and passivation.
9. Define JPA. State its use.
10. Differentiate session bean and entity bean.

PART-B

Answer ALL Questions: **5*8=40**

11.a.) Explain the MVC architecture.   .

(or)

   b.) Illustrate the process flow of statement object and prepared statement object.

12.a.) Write short notes on servlet life cycle.

(or)

   b.) Explain the types of wrapper classes.

13.a.) Illustrate the following

   i. basic HTML tag attributes.

   ii.JSF core tag types.

(or)

   b.) Explain the methods of applying JSF validations .

14.a.) Discuss life cycle of Stateless Session Beans.

(or)

   b.) Write short notes on

   i. characteristics of MDB

   ii. life cycle of MDB

15.a.) Illustrate the stages and methods in the life cycle of an entity.

(or)

b.) Write short notes on the annotations used in an entity class.

PART-C

Answer any TWO Questions: **2*20=40**

16.a.) Explain the types of enterprise architecture.

b.) Explain in detail the session tracking mechanism.

17.a.) Discuss in detail the JSF request processing life cycle.

b.) Illustrate the various transaction models.

18. Explain the following

i. JPQL statements. (6 marks)

ii. JPQL functions. (6 marks)

iii. steps to execute query.(8 marks)

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