Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous), Rajkot

Affiliated to Saurashtra University, Rajkot

SEMESTER END EXAMINATION NOVEMBER 2018

Bachelor of Computer Application / B.Sc. Information Technology

16UCADC01 / 16UITDC01 – ADVANCED JAVA PROGRAMMING

Duration of Exam – 3 hrs   *Semester – V*   *Max. Marks – 70*

Part A (10X1= 10 marks)
Answer **ALL** questions

1. Which method of the ResultSet interface is used to move to next record?
2. Write the signature of forName() method.
3. Write Driver class string for MySQL database connectivity.
4. Which method is used to get session ID?
5. A piece of data is assigned by server and stored at client is known as_____
6. Which error message is displayed when the exception occurred?
7. State True/False: ServltConfig object is unique per Servlet.
8. HQL stands for ____
9. ____ Implicit object that used to handle the exception in JSP.
10. AOP stands for_____

Part B (5X5= 25 marks)
Answer **ALL** questions

11a.   Discuss steps for the database connectivity with MySQL with an example.

OR

11b.   Explain Connection interface.

12a.   Explain Filter API.

OR

12b.   Explain following terms:
    i)   Role of Web Container
    ii)   Deployment Descriptor
    iii)   Application Server v/s Web Server
    iv)   Content type
    v)   HTTP

13a.   Discuss scope of JSP objects.

OR

13b.   Explain Action elements of the JSP.

14a.   Advantages of Hibernate over JDBC.

OR

14b.   Explain Hibernate Architecture.

15a.   State Full form of: OXM, XLS, JDO,AOP, DAO

OR

15b.   Explain IOC and Dependency Injection.

Part C *(5X7= 35 marks)*
Answer **ALL** questions

16a.   Explain JDBC driver types.

OR

16b.   Explain DatabaseMetadata Interface with any Five methods and example.

17a.   Explain following methods:
  i)   sendRedirect
  ii)   getCookies
  iii) getSession
  iv)   getParameter
  v)   setContentType
  vi)   getWriter
  vii) getRemoteAddr

OR

17b.   Explain Servlet Collaboration with an example.

18a.   Explain JSP Implicit Objects.

OR

18b.   Explain Error handling using page directive with an example.

19a.   Give an example of hibernate with XML.

OR

19b.   Explain hibernate annotation with an example.

20a.   Explain AOP and list terminologies of AOP

OR

20b.   Explain Spring Architecture Framework.

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