Enrollment No.
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## 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
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OR

14b. Explain Hibernate Architecture.

Semester – V

*Max. Marks* – 70

<u>Part A</u> (10x1= 10 marks) Answer <u>ALL</u> 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		
	$\frac{Part B}{Answer } (5X5 = 25 marks)$ Answer $\underline{ALL}$ questions		
11a.	Discuss steps for the database connectivity with MySQL with an example.		
OR			
11b.	Explain Connection interface.		
12a.	Explain Filter API.		
OR			
12b.			
	i) Role of Web Container		
	ii) Deployment Descriptor		
	<ul><li>iii) Application Server v/s Web Server</li><li>iv) Content type</li></ul>		
	v) HTTP		
13a. <b>OR</b>	Discuss scope of JSP objects.		
13b.	Explain Action elements of the JSP.		
14a.	Advantages of Hibernate over JDBC.		

15b. Explain IOC and Dependency Injection. Part C (5X7 = 35 marks)Answer **ALL** questions 16a. Explain JDBC driver types. OR Explain DatabaseMetadata Interface with any Five methods and example. 16b. 17a. Explain following methods: sendRedirect i) getCookies ii) iii) getSession getParameter iv) setContentType v) getWriter vi) vii) getRemoteAddr OR 17b. Explain Servlet Collaboration with an example. Explain JSP Implicit Objects. 18a. OR 18b. Explain Error handling using page directive with an example. Give an example of hibernate with XML. 19a. OR 19b. Explain hibernate annotation with an example. 20a. Explain AOP and list terminologies of AOP OR Explain Spring Architecture Framework. 20b.

State Full form of: OXM, XLS, JDO, AOP, DAO

15a. **OR**