Enrolment Number:

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P P SAVANI UNIVERSITY P P SAVANI SCHOOL OF ENGINEERING 3Rd Semester of B Tech Examination (1st Internal Exam)

Subject: Object Oriented Programming with JAVA (SEIT2010)
Branches: CE/IT

[Date: 24/08/2018, Friday]		[Time: 11.00 A.M. to 12.00 A.M.]	[Total Marks: 30]
• Figur • Q 1 & • Use o	ions: res to the right indicate f & 2 are compulsory. of scientific calculator is a		
Q.1 G	ive answer in one sente	nce.	(05)
	 What is static vari Does Java support 		
	3. Give one use of th	nis key word.	
	4. What is the defau	lt value of the local variables?	
	5. Is constructor in	nerited?	
Q.2.A	Define the following ter	ms with an example: 1) Class 2) Object	(05)
Q.2.B	What is the purpose of o	default constructor? Explain with an example.	(05)
Q.3.A	Explain three usage of s	uper keyword with an example.	(06)
Q.3.B	Explain JDK, JRE and JV	М.	(04)
		OR	
Q.3.A	Explain types of inheritance supported in Java and give reason why multiple inheritance is not supported in Java.		
Q.3.B	Difference between me	thod Overloading and Overriding with example	s of each. (04)

Q.4.A Create a class called Date that includes three pieces of information as instance variables—a (05) month (type int), a day (type int) and a year (type int). Your class should have a constructor that initializes the three instance variables and assumes that the values provided are correct. Provide a set and a get method for each instance variable. Provide a method displayDate that displays the month, day and year separated by forward slashes(/). Write a test application named DateTest that demonstrates classDate's capabilities.

OR

Q.4.A Create a class called Invoice that a hardware store might use to represent an invoice for an item sold at the store. An Invoice should include four pieces of information as instance variables-a part number(type String), a part description(type String), a quantity of the item being purchased (type int) and a price per item (double). Your class should have a constructor that initializes the four instance variables. Provide a set and a get method for each instance variable. In addition, provide a method named getInvoice Amount that calculates the invoice amount (i.e., multiplies the quantity by the price per item), then returns the amount as a double value. If the quantity is not positive, it should be set to 0. If the price per item is not positive, it should be set to 0.0. Write a test application named invoice Test that demonstrates class invoice's capabilities