P P SAVANI UNIVERSITY

Third Semester of B. Tech. Examination
May 2019
SEIT2010 Object Oriented Programming with Java

18.05.2019, Saturday   Time: 09:30 a.m. To 11:00 a.m.   **Maximum Marks: 60**

Instructions:
1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION – I

Q - 1	Answer the following (Any Five)	[05]
(i)	What is the difference between Application and Applet?	
(ii)	What is Java Virtual Machine?	
(iii)	Explain Garbage Collection.	
(iv)	What is an object? How you can create it?	
(v)	What are constructors in Java?	
(vi)	What is call by value and call by reference?	
(vii)	What is JIT compiler?	
Q - 2 (a)	What is interface? What are the similarities between class and interface?	[05]
Q - 2 (b)	Explain different operators in JAVA.	[05]

OR

Q - 2 (a)	Explain features of Object Oriented Programming.	
Q - 2 (b)	What is access modifier in java? Explain with examples.	[05]
Q - 3 (a)	Describe super and this keyword with respect to inheritance.	[05]
Q - 3 (b)	Explain Method Overloading with an example.	[05]
		[05]

OR

Q - 3 (a)	Explain Method Overriding with an example.	[05]
Q - 3 (b)	Write a code to search number in array.	[05]
Q - 4	Attempt any one.	[05]
(i)	Write a code to implement multiple inheritances using Interface.	
	Write a code to implement the Fibonacci series using loop control structure.	

SECTION – II

Q - 1	Answer the following (Any Five)	[05]
(i)	What is wrapper class?	
(ii)	What is the difference between Error and Exception?	
(iii)	What is the difference between inner class and sub class?	
(iv)	Is String data type in Java?	
(v)	What is the difference between array and Vector?	
(vi)	Why runnable interface is used in Java?	
(vii)	What is serialization?	
Q - 2 (a)	What is threading in JAVA? Explain Multithreading.	[05]
Q - 2 (b)	Explain AWT in details.	[05]

OR

Q - 2 (a)	What is exception handling in JAVA? Explain try, catch and finally.	[05]
Q - 2 (b)	What is an array? How to create array? Explain types of array.	[05]

Q - 3 (a)	How to create package? Explain with an example.	[05]
Q - 3 (b)	Explain applet life cycle with an example.	[05]
	OR	
Q - 3 (a)	What is inner class? Give an example.	[05]
Q - 3 (b)	Explain various string classes in java with an example.	[05]
Q – 4	Attempt any One.	[05]
(i)	Write a code to read from file and write to file.	
(ii)	Write a code to convert string in uppercase and compare two strings.	

****