P P SAVANI UNIVERSITY

Second Semester of B.Sc. IT. Examination May 2019

SSIT1071 Introduction to Computer Science - II

18.05.2019, Saturday

Time: 12:30 p.m. To 3:00 p.m.

10.05.20	Time: 12:30 p.m. To 3:00 p.m. Maximum Ma	rks: 60
Instructi	ons: question paper comprises of two sections.	11.5.00
2. Section	on I and II must be attempted in separate answer sheets.	
3. Make	suitable assumptions and draw neat figures wherever required.	
4. Use o	f scientific calculator is allowed.	
	SECTION – I	
Q-1	Answer the following (Any Five)	[05]
(i)	What is full form of JVM?	[oo]
(ii)	Java performs Automatic Garbage Collection - State true or false.	
(iii)	The double variable occupies bytes.	
(iv)	are used to initialize the objects.	
(v)	Java allows you to group classes in a collection called a	
vi)	Abstract classes can be instantiated - State True of False.	
(vii)	Does Java support multiple inheritance? (Yes or No)	
Q-2(a)	Explain why Java is called Platform Independent Language.	[05]
Q-2(b)	Explain various Object-Oriented Programming features.	_
	OR	[05]
Q-2(a)	Explain Static Imports in Packages in Java.	[05]
Q-2(b)	Explain Dynamic Binding in Java with example.	[05]
Q-3(a)	Explain various types of operators in Java.	_
Q-3(b)	Evalgin the was of stationary	[05]
6-2 (n)	Explain the use of static variables and methods with suitable Java code.	[05]
	OR	
Q-3(a)	Explain the use of Final Keyword in Java with classes and methods with suitable Java code	[05]
	Shippiec	[oo]
Q-3(b)	Explain Interfaces in Java with an example.	[05]
Q-4	Attempt any one.	[05]
(i)	Write a Java code to demonstrate the use of "Super" keyword in Inheritance.	[oo]
_:i)	What is "this" keyword in Java? Write a Java code to demonstrate this keyword.	
	SECTION – II	
Q-1	Answer the following (Any Five)	[05]
(i)	Write an example of a mutable class.	[o3]
(ii)	What is the use of charAt()?	
(iii)	Which function is used to find length of a string?	
(iv)	What is drawRectangle()?	
(v)	Write the syntax of try and catch.	
(vi)	Which of these methods of FileReader class is used to read characters from a file?	
	a) read()	
	b) scanf()	
	c) get()	
	d) getInteger()	

(vii)	Which of these method of Thread class is used to find out the priority given to a thread? a) priority()	
	b) setPriority()	
	c) getPriority()	
	d) threadPriority()	
Q-2(a)	Explain serialization in Java with an example.	[05]
Q-2(b)	Explain different I/O classes in Java.	[05]
	OR	[oo]
Q-2(a)	Explain the life cycle of an Applet along with its methods.	[05]
Q-2(b)	Write a program to show Thread Synchronization in Java.	[05]
Q-3(a)	Write a program to explain creation of Threads in Java.	[05]
Q-3(b)	Explain with example, Input Streams and Output Streams.	[05]
	OR	[oo]
Q-3(a)	Write a Java code to read integers from the file and write the even and odd integers to two different files.	[05]
Q-3(b)	Explain try, catch, finally and throws mechanism with proper Java code.	[05]
Q-4	Attempt any one.	[05]
(i)	Explain File Handling in Java.	[oo]
(ii)	Write a Java code to demonstrate the use of different methods of Thread.	
