Seat No.		

B.Sc (IT)-SEM-IV Examination

March/April 2015

Paper Name: JAVA Programming Paper No: 405

Subject Code No: 4791

Time	: 2:30 Total Mark	ks: 70
Q1		_
(a)	Explain features of JAVA.	7
(b)	Explain Abstraction, Encapsulation and Inheritance with example. OR	7
Q1		
(a)	What is command line argument? Write a program to check that whether the name given from command line is file or not? If it is a file then print the size of file and if it is directory then it should display the name of all files in it.	7
(b)	Define polymorphism with its need. Define and explain static and dynamic binding using program.	7
Q2	O.D. 1. in a section or control of the cycling with evernle	7
(a) (b)	What is constructor? Explain constructor overloading with example. What is the difference between method overloading and method overriding? Explain giving examples.	7
	OR .	
Q2		_
(a)	What is an Exception? Explain Exception handling in JAVA.	7
(b)	What is package? Explain steps to create package with example.	7
Q3		_
(a)	What is Multithreading? Explain Life Cycle of Thread with example.	7
(b)	Justify statement.	7
	(i) JVM is platform dependent.	
	(ii) There is no destructor in Java.	
	OR	
Q3	in the second se	7
(a) • (b)	Explain thread Synchronization with join() and isAlive() methods. Why synchronization is required in multithreaded programming. Write a program that uses thread synchronization to guarantee data integrity in a multithreaded application.	7

Q4		_
(a)	Answer the following:	7
	1. Text I/O v/s Binary I/O.	
	2. String class operations to create and manipulate strings.	_
(b)	Write a program to replace all "word1" by "word2" from a file1, and	7
` ,	output is written to file2 file and display the no. of replacement.	
	OR	
Q4		
(a)	Write a program that counts the no. of words in a text file. The file name	7
	is passed as a command line argument. The program should check	
	whether the file exists or not. The words in the file are separated by white	
	space characters.	7
(b)	Differentiate String class and String Buffer class with explanation of its	,
•	methods.	
Q5		_
(a)	Write a program that illustrates interface inheritance. Interface A is	7
	extended by A1 and A2. Interface A12 inherits from both P1 and P2.Each	
	interface declares one constant and one method. Class B implements	
	A12.Instantiate B and invokes each of its methods. Each method displays	
	one of the constants.	_
(b)	Explain serialization and deserialization of an object with example.	7
()	OR	
Q5		
(a)	What are the benefits of using generic types? Differentiate between	7
(44)	abstract class and interface.	
(b)	Explain buffer stream and print stream in detail giving examples of each.	7
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