

MAY 2018: END SEMESTER ASSESSMENT (ESA) MCA. IV SEMESTER ✕

UC16MC551 - JAVA PROGRAMMING

Time: 3 Hrs

Answer All Questions

Max Marks: 100

1.	a)	List three new features introduced in Java 1.8.	3
	b)	Write the various types of 'if', 'for' and 'while' constructs, with syntax and examples.	10
	c)	Write a java program to display given number (<100) in words, using switch statement. Eg : Input: 12 Output : Twelve	7
2.	a)	Define following: a) Class (b) Static Blocks (c) Polymorphism d) Inheritance (e) Constructors	10
	b)	Write a Java program to find the union and intersection of two sets of array elements.	5
	c)	Write a note on (i) Variable arguments (ii) One constructor invoking another	2+3
3	a)	Write a Java program to demonstrate a class that implements two interfaces.	10
	b)	Define Threads and its life cycle with a neat diagram.	3
	c)	Differentiate between :	
		i) Overloading and Over-riding	3
		ii) Abstract class and Interface	2
4.	a)	List the differences between various types of inheritance available in Java.	6
	b)	Write a Java program to create a "Factorial" package and import the same to find factorial of a given number.	8
	c)	Describe three exceptions with example for each.	6
5.	a)	Define the functions with example: i) contains() (ii) replace() (iii) endsWith()	6
	b)	Write short notes on (i) I18N (ii) enum (iii) wrapper Class	9
	c)	Write a Java swing program to find sum of two numbers.	5