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## PES University, Bengaluru (Established under Karnataka Act 16 of 2013)

UC15MC553

## DECEMBER 2017: END SEMESTER ASSESSMENT (ESA) MCA. IV SEMESTER

## UC15MC553 - OOPs using JAVA

Tim	e: 3 l	-Irs Answer All Questions Max Marks: 1	00					
1.	a)	Give the details of all the features that make Java as a powerful language	10					
	b)	Write the syntax and example for various control structures in Java.	10					
2.	a)	Define following: a) Object (b) Constructor (c) Encapsulation (d) Instance Block (e) Command line arguments	5					
	b)	Write a Java program to check if the given number is prime or not.						
	c)	What are variable arguments? Give the syntax.	3					
	d)	Write a program to accept a number less than 100 and display its last digit in words using Switch statement. (Eg: 23 – Last digit is THREE)	7					
3	a)	Differentiate between abstract class and Interface.	5					
	b)	Write a Java program to demonstrate polymorphism to implement sum(int,int), sum(int,int) and sum(int,float).						
	c)	Explain the types of Inheritance with diagrams.						
	d)	Define: i) Overriding (ii) Static method (iii) try & catch (iv) finally (v) 2D array						
4.	a)	Illustrate multiple inheritance example and write a program to implement the same.	10					
	b)	The state of the search of the search with near diagram						
	c)	What is a package? How is a package created in java.	5					
5.	a)	List out 5 commonly used String methods with example for each.	5					
	b)	Write a note on 5 different types of Annotations with syntax and usage.	1					
	(c)	Brief about 1) Enumerations (2) Wrapper Class (3) Internationalisation	5					