Total No. of Questions: 8]	290	SEAT No. :
PB-3820		[Total No. of Pages : 2
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## T.E. (Electronics/E&TC)

## FUNDAMENTALS OF JAVA PROGRAMMING (2019 Pattern) (Semester - I) (304185C) (Elective-I)

(2019 Pattern) (Semester - I) (304185C) (Elective-I) *Time* : 2½ *Hours*] **Max.** Marks: 70 Instructions to the candidates: Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7or Q8. 1) 2) Neat diagrams must be drawn wherever necessary 3) Black figures to the right indicate full marks. Assume suitable data, if necessary. 4) Explain Inheritance and types of Inheritances in java. [8] With the help of proper example, explain use of super keyword. b) [5] Write a program to calculate the length of a string. [5] c) Explain static and dynamic polymorphism with suitable example. **Q2**) a) What is an array? How to declare an array in Java? Compare C array b) with Java Array Write a program using command line argument to add two number [5] c) What is the difference between interface and class [4] **Q3**) a) Design a package containing a class which defines a method to find area of circle. Import it in java application to calculate area of a circle. How do we add class or interface to a package? Explain with suitable example [5]

<b>Q4</b> )	a)	What is an interface in java? How do we create it? Give the example to			
		create and to implement the interface.	[8]		
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	b)	What is a package? Explain with the help of a simple example.	[9]		
<b>Q</b> 5)	a)	Differentiate between multithreading and Multitasking	[5]		
	b)	Explain life cycle of an applet	[8]		
	c)	Explain my and eatch block.	[5]		
		OR %			
<b>Q6</b> )	a)	What is Multithreading? Explain ways to create a thread in java.	[9]		
	b)	Write a program to handle arithmetic exception.	[5]		
	c)	Write a simple java program to create an applet.	[4]		
	6				
<b>Q</b> 7)	a)	List difference between swing and AWT in Java.	[5]		
	b)	Write a Java program using Swing to create text field.	[8]		
	c)	Explain the classes associated with file handling	[4] %		
		OR	333		
		6.VOR			
<b>Q8</b> )	a)	Create application to create window in Java deriving from Frame	lass		
		to display message "Welcome to World of Java"	[7]		
	b)	to display message 'Welcome to World of Java''  Explain the hierarchy of AWT.  Write a code in Java to open a file for writing	[5]		
	c)	Write a code in Java to open a file for writing	[5]		
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