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## PARUL UNIVERSITY

FACULTY OF IT & COMPUTER SCIENCE BCA/ IMCA Winter 2019 - 20 Examination Semester: 4 Date: 12/12/2019 Subject Code: 05101251/05301251 Time: 2:00 pm to 4:30 pm **Subject Name: Core JAVA Total Marks: 60 Instructions:** 1. All questions are compulsory. 2. Figures to the right indicate full marks. 3. Make suitable assumptions wherever necessary. 4. Start new question on new page. **Q.1** Answer the followings. A. Answer / Define the following in short. (05)1. What is first name of java? 2. Define: polymorphism. 3. What is applet? 4. Is thread using shared memory or common memory? 5. Define package with its syntax. B. Multiple choice type questions/ Give the sentence true or false. (Each of 01 marks) (10)Which of the following is a class in JAVA? a) int b) String c) short d) double 2. Which of the following features are not common in JAVA & C++? a) The class declaration b) The access modifiers c) The encapsulation & methods d) Pointer of referencing 3. Which of the following is called when a method having same name as that the name of the class where it is defined? a) abstract b) this c) final d) constructor **4.** Which of the following keyword can be used in a subclass to call the constructor of super a) super b) this c) extent d) extends 5. What is significance of the '\*' in the following line "package" denotes a name of package? import package.\*; a) Only the class of this package will be imported b) Only the package of this package will be imported c) All the classes & interfaces of this package will be imported d) All the classes interface & sub-package of this package will be imported. **6.** The fields in an interface are implicitly specified as a) public b) protected c) private d) static & final 7. Which of the following method can be used to know the priority of thread?

b) priority()

b) start() d) main()

**8.** Which of the following will contain body of the thread?

d) getThreadPriority()

a) getPriority()

c) isRunning()

a) run()

c) stop()

	9.	In	JAVA AWT, TextA	rea & TextFe	eild are subclass of		
		a)	List	b	) Label		
		c)	Text Component	d	l) TextBox		
	10. The class at the top of AWT hierarchy is						
		a)	Component	b	o) Window		
		d)	Container	d)	) Frame		
Q.2	Answer the followings. (3 Marks Questions.) (Any Five)						
	1.	1. What do you understand by JAVA virtual machine?					
	2.	2. What is classloader? Explain three built-in classloader.					
	3.	3. What is the difference between an object-oriented programming language and object based programming language?					
	4.	4. Can we override static methods? If YES/NO, then give justification.					
	5.	5. What is multithreading? Give the advantages of it.					
	6.	6. Describe the purpose and working of sleep() method.					
Q.3	Ar	Answer the following. (5 Marks Questions)(Any three)					
	1.	Answer the following. (5 Marks Questions)(Any three)  1. What are the different features of java? Explain.					
	2. Differentiate JAVA & C++						
	3.	3. Explain runtime polymorphism with an example.					
	4.	4. Give the differences between abstract class and Interface.					
Q.4	Answer the following in detail.						
Α.	W	What do you mean by package? What are the different ways to access the package?					
<b>B.</b> (1)	Explain the event delegation model with a diagram.					(05)	
<b>B.</b> (2)	Ex	- plai	n Access specifier wi	ith an exampl	le.	(05)	
		•	•	•	OR		
<b>B.</b> (1)	W	hat	is thread? Explain lif	fe cycle of the	read.	(05)	
<b>B.</b> (2)	Write a java program which will print a pyramid of "*". *						
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			* * * *				
			* * * * *				
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