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	Reg. No. :			
	Question Paper Co	de: 20413		
RF	E./B.Tech. DEGREE EXAMINATI	ONS APRIL/MAY 20	199	
diller enamels to	Third/Fourth/Fifth S		salm (a)	
	Computer Science and I	was seed away.		
	CS 8392 – OBJECT ORIENTEI) PROGRAMMING		
Engineerir Instrumentation	Computer and Communication En ng / Electronics and Communicati tion Engineering/Electronics and on and Control Engineering / Arti uter Science and Business System	on Engineering/Elect Telecommunication l ficial Intelligence and	ronics and Engineering I Data Scien	1
	(Regulations 20	17)		
Time: Three ho	ours	Maxim	um : 100 ma	rks
	Answer ALL ques	tions.		
	PART A — $(10 \times 2 = 2)$	0 marks)		
1. What is m	neant by object oriented programm	ning?		
2. Define obj	jects and classes in java.			
3. What is o	bject clonning?			
4. Differenti	iate between class and interface.			
5. What are	exceptions?			
6. Define str	ream.			
7. What are	the advantages of generic progra	mming?		
8. Write abo	out threads.			
9. What is n	neant by window adaptor classes?			
	te the features of AWT in java.			
10. Enumerat				
10. Enumerat				

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			PART B — $(5 \times 13 = 65 \text{ marks})$		
11	. (a)		What is meant by polymorphism? Explain various types of polymorphis with suitable examples.		
			Question Pag rollodes 20418		
	(b)	(i)	Explain the characteristics of OOP.	(7)	
		(ii)	Write a java program to find the factorial of any given number.	(6)	
12	. (a)		cuss briefly about subclasses, object classes and abstract classes hods.	with (13)	
			Or		
	(b)	(i)	Write a java program to find the sum of even and odd num present in between 1 to 30.	bers (6)	
		(ii)	Write a java program to demonstrate packages.	(4)	
		(iii)	Discuss about inner classes.	(3)	
13	. (a)	(i)	How can we create our own exceptions? Demonstrate with examprogram.	mple (7)	
		(ii)	Describe about exception hierarchy.	(4)	
		(iii)	How do you read files in Java?	(2)	
			Or		
	(b)	(i)	Differentiate between Byte streams and character streams.	(6)	
		(ii)	Discuss about stack tree elements.	(5)	
		(iii)	How do you write files in Java?	(2)	
14	l. (a)	(i)	What is thread and explain in details how many ways a thread be created.	l can (5)	
		(ii)	Describe about generic methods and generic classes.	(8)	
			Or		
	(b)	(i)	Explain briefly about synchronizing threads.	(7)	
		(ii)	Explain the differences between multi-threading and multi task	king. (6)	
18	5. (a)	(i)	Discuss briefly about AWT event hierarchy.	(6)	
		(ii)	What is frame and explain about event handlers.	(4)	
		(iii)	Discuss about components in detail.	(3)	
			Or		
			and in the Actor against an authorized	0.470	
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	(h)	(i) D.	Garaning Frankin about anima samunasata in datail	(7)
	(b)		efine swing. Explain about swing components in detail.	
			esplain about text fields and its properties.	(4)
		(iii) De	efine lists.	(2)
			PART C — $(1 \times 15 = 15 \text{ marks})$	
16	. (a)	(i) Cr De	reate the classes named as Grand parent, Parent emonstrate with suitable functions about multi-level in	and child. heritance. (8)
		(ii) Wi	rite a Java code to demonstrate simple carameterized constructor and constructor overloading.	
			Or	
	(b)		a Java code using appropriate giving compo- enting login form which comprises of sign-up page a	
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			3 .	20413