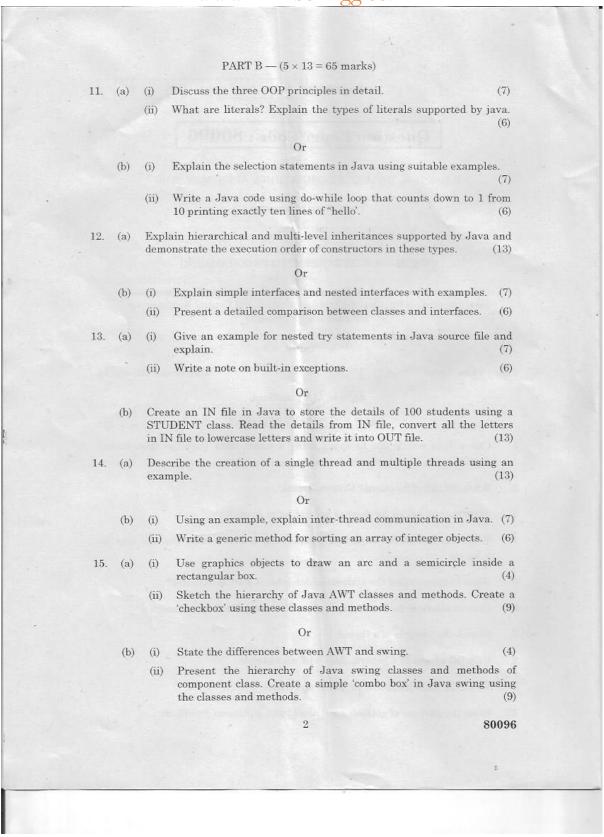
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	Reg. No. :	
	Question Paper Code: 80096	
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	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.	
	Third/Fourth Semester	
	Computer Science and Engineering	
	CS 8392 — OBJECT ORIENTED PROGRAMMING	
	(Common to Computer and Communication Engineering/Electronics and Instrumentation Engineering/Instrumentation and Control Engineering/ Information Technology)	
	(Regulation 2017)	
Tin	ne : Three hours Maximum : 100 marks	
	Answer ALL questions.	
	PART A — $(10 \times 2 = 20 \text{ marks})$	
1.	Can a Java source file be saved using a name other than the class name? Justify.	
2.	What are inline functions? Give examples.	
3.	State the conditions for method overriding in Java.	
4.	Write the syntax for importing packages in a Java source file and give an example.	
5.	What happens when the statement: int value = 25/0; is executed?	
6.	Give an example for reading data from files using File Input Stream.	
7.	Sketch the lifecycle of a thread.	
8.	Give the syntax of a generic class with an example.	
9.	Write the class hierarchy for panel and frame.	
10	State the purpose of getRed(), getBlue() and getGreen() methods.	

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PART C — $(1 \times 15 = 15 \text{ marks})$

- 16. (a) The following is a system that can be used to synchronize threads. In some shops a machine issues numbered tickets to customers and customers are served in numeric order.
 - * A ticket machine holds an integer, initially zero, and has a single atomic operation:
 - turn() which increments the integer and returns its previous value.
 - A scheduler also holds an integer, initially zero, and has two atomic operations:

next() - which increments the integer count

queue(value) - suspends the calling thread until the count is atleast as large as the value given as an argument

Given a ticket machine, m, and a scheduler, s, a critical region could then be coded as follows:

number = m.turn();

s.queue(number);

protected code

s.next();

Write Java classes Ticket Machine, with a turn method, and Scheduler, with next and queue methods to implement the system.

Or

(b) Define Java classes of your own without using any library classes to represent linked lists of integers. Provide it with methods that can be used to reverse a list and to append two lists.

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