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B.Tech Degree S3	(R,S) / S3 (WP) (R,S) / S1 (PT) (S,FE) Examination November	2024	(201	Scheme	ارفي	7
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Course Code: CST205 Course Name: OBJECT ORIENTED PROGRAMMING USING JAVA

Max. Marks: 100 D		Marks: 100 Duration: 3	3 Hours
		PART A	
		Answer all questions. Each question carries 3 marks	Marks
	1	State the importance of activity diagram.	(3)
	2	Explain how byte code helps in achieving platform independence.	(3)
	3	Define a Constructor? State its properties.	(3)
	4	State the uses of this keyword.	(3)
	5	Outline the use of final keyword.	(3)
	6	Give the difference between checked and unchecked exceptions?	(3)
	7	List out any three event sources and mention its event type and listeners used in	(3)
		it.	
	8	Outline the use of synchronized keyword.	(3)
	9	Explain the difference between AWT and Swing.	(3)
	10	List any four container and component classes of Swing API?	(3)
		PART B	
		Answer any one full question from each module. Each question carries 14 marks	
		Module 1	
	11	a) Explain various lexical issues in java programming	
		b) Draw a class diagram for an order processing system	(7)
**	12	a) Name the four integer types in Java and outline the bitwise operators that can	(7)
	*	be applied to the integer types.	
		b) Design a use case diagram for a simple online shopping system. Identify the	
		main actors involved and the primary use cases that represent the interactions	(7)
		between the actors and the system.	
		Module 2	
	13	a) Differentiate between method Overloading and Overriding with examples.	(8)
		b) Explain the uses of super keyword with examples.	
			(6)

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.14	a) Discuss different access specifiers used in java?		
	b) Explain dynamic method dispatch with the help of an example.	(8)	
. 41	Module 3	(0)	
-15	a) What is the difference between the Reader /Writer class hierarchy and the Input	(7)	
	stream/Output stream class hierarchy?		
	b) Explain how the following scenario is implemented. Create a package	(7)	
	"reversepackage". Add a class Reverse into it and write a method rev () which		
	reverses a number. Import this package in another class outside the package and		
	find the reverse of a number given as command line argument		
16	a) What are the exception handling keywords in java?	(7)	
	b) Write a java program to copy the contents of a text file into another text file.	(7)	
	Module 4	(.)	
17	a) Outline the concept of adapter classes with the help of an example	(8)	
	b) Explain the Thread Life Cycle with a neat diagram?	(6)	
18	a) Explain Delegation event model in java with a program example?	(7)	
	b) Explain the different ways of creating a thread using java.	(7)	
	Module 5	(.)	
19	a) Outline the various steps involved in connecting java with a database.	(8)	
	b) Write a simple swing program which prints a message on a text box when a	(6)	
	button is clicked	(-)	
20	a) Write a swing program to develop a mini calculator which include addition,	(8)	
	subtraction, multiplication and division functionality		
	b) Write a java program which insert a set of values into a database table 'student'	(6)	

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