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R-17

Code: 7G144

II B.Tech. II Semester Supplementary Examinations May/June 2024

## Object Oriented Programming using JAVA

(Computer Science and Engineering)

Max. Marks: 70

Time: 3 Hours

Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks )

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		Marks	CO	BL
<b>UNIT-I</b>				
1.	Define multidimensional array? Write a java program for matrix multiplication.	14M	CO1	L2
<b>OR</b>				
2. a)	Explain the benefits and applications of OOPs	7M	CO1	L2
b)	Define Constructor. Explain parameterized constructor.	7M	CO1	L2
<b>UNIT-II</b>				
3.	How can we implement the multiple inheritance using java? In what way it is different from other type of inheritance? Illustrate with example program	14M	CO2	L2
<b>OR</b>				
4. a)	Differentiate between overloading and overriding with examples	7M	CO2	L3
b)	List the advantages of packages over classes.	7M	CO2	L1
<b>UNIT-III</b>				
5. a)	Differentiate between multithreading and multitasking.	7M	CO3	L3
b)	Write an example program for try and catch block	7M	CO3	L3
<b>OR</b>				
6. a)	What is the difference between checked and unchecked exception? Write the code segments for each type.	8M	CO3	L3
b)	Explain the ways of creating a thread with an example.	6M	CO3	L2
<b>UNIT-IV</b>				
7. a)	Explain method references in java.	7M	CO4	L2
b)	How to create Generic Constructors in java? Explain with an example	7M	CO4	L2
<b>OR</b>				
8. a)	What are the three parts of a Lambda Expression? What is the type of Lambda Expression?	7M	CO4	L5
b)	Write about the generic interfaces.	7M	CO4	L2
<b>UNIT-V</b>				
9. a)	Demonstrate Collection algorithms with example program.	7M	CO5	L3
b)	Briefly explain Map classes.	7M	CO5	L2
<b>OR</b>				
10. a)	What are the main differences between array and collection?	7M	CO5	L3
b)	Explain StringTokenizer with a java program.	7M	CO5	L3

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Important Note: 1. On completing your answers. Compulsorily draw diagonal cross line on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 32+8=40, will be treated as malpractice.