

Code: 19CS3T04

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**VISHNU INSTITUTE OF TECHNOLOGY (AUTONOMOUS)**

**II B. Tech I Semester Supplementary Examinations, Oct - 2021**

**Object Oriented Programming through Java**

**(CSE&IT)**

**Time: 3 hours**

**Max. Marks: 60**

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- Note: 1. Answer all the 6 Questions  
2. Each Question carries 10 Marks  
3. Answer either **a or b** from each question
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- 1(a) I How to implement type casting in Java? How it is different from primitive type conversion? Explain it with an example. L2 CO1 [5M]  
II What is an array? Explain the different ways to create and initialization of arrays in java. L2 CO1 [5M]

**(OR)**

- 1(b) I Write any six significant differences between Procedure Oriented Programming and Object Oriented Programming. L1 CO1 [5M]  
II With a neat diagram, explain the Java Virtual Machine architecture. L1 CO1 [5M]  
2(a) I What are objects and how they are created from Class? Explain the dynamic initialization of objects using constructors. L1 CO2 [5M]  
II Write the importance of command line arguments with an example. L2 CO2 [5M]

**(OR)**

- 2(b) I Explain how garbage collection happens in Java. L3 CO2 [5M]  
II Explain and write a program to demonstrate the method overloading. L2 CO2 [5M]  
3(a) I Define an interface. Explain the definition and implementation of interface in java with suitable example. L2 CO3 [5M]  
II Explain how to set the priority of threads. L2 CO3 [5M]

**(OR)**

- 3(b) I What is a package in java. Explain how to create and import packages in java with example. L2 CO3 [5M]  
II Explain the different ways of creating a threads with an examples. L2 CO3 [5M]  
4(a) I Write the procedure to read from a file using File Reader class L3 CO4 [5M]  
II What is the importance of Exception Handling in Java? Define and distinguish between checked and unchecked exceptions. L2 CO4 [5M]

**(OR)**

- 4(b) I Write the purpose of File Input Stream and File Output Stream with an example. L2 CO4 [5M]  
II What is an exception in java. Write a program to demonstrate the Arithmetic Exception and Array Index Out Of Bounds Exception. L2 CO4 [5M]

- 5(a) I Write the importance of Generic methods and Generic classes in java. L2 CO5 [5M]  
II Differentiate the String and String Buffer class L1 CO5 [5M]

**(OR)**

- 5(b) I What is the importance of String Tokenizer class. Write a program to read a string and display the words as tokens. L1 CO5 [5M]  
II What is a set? Differentiate the Hash Set and Linked Hash Set with an example. L2 CO5 [5M]
- 6(a) Differentiate the Array List and Linked List in java. Write a program to add and manage the elements in both the lists. L2 CO6 [10M]

**(OR)**

- 6(b) I what is lambda expression? Explain functional filtering and mapping operations on lists with lambdas. L3 CO6 [5M]  
II What is a map? Write a program to demonstrate mapping operations on lists. L2 CO6 [5M]

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