

Code: 19CS3T04

R19

H.T.NO

--

VISHNU INSTITUTE OF TECHNOLOGY (AUTONOMOUS)

II B. Tech I Semester Supplementary Examinations, March - 2022

Object Oriented Programming through Java

(CSE & IT)

Time: 3 hours

Max. Marks: 60

Note: 1. Answer all the 6 Questions
2. Each Question carries 10 Marks

- ~~~~~
- | | | | | | |
|---|---|--|---|----|------|
| 1 | a | Illustrate how Java achieves Abstraction. | L | CO | [5M] |
| | b | Describe any 5 important features of Java language | L | CO | [5M] |

(OR)

- | | | | | | |
|---|---|---|---|----|------|
| 2 | a | Write a program that reads a list of integers, and then prints the sum of the even integers and odd integers. | L | CO | [5M] |
| | b | Write a Java program to remove a specific element from an array | L | CO | [5M] |

- | | | | | | |
|---|---|---|---|----|------|
| 3 | a | Distinguish between constructor and method. | L | CO | [5M] |
| | b | What is the output of the following program? Explain. | L | CO | [5M] |

```
class Test1 {  
    int x = 10;  
    public  
    static void main(String[] args)  
    {  
        System.out.println(x);  
    }  
    static  
    {  
        System.out.print(x + " ");  
    }  
}
```

(OR)

- | | | | | | |
|---|---|--|---|----|------|
| 4 | a | Is it possible to have two methods in a class with same method signature but different return types? Explain with an example. | L | CO | [5M] |
| | b | What do you mean by constructor overloading Java? Illustrate with example. | L | CO | [5M] |
| 5 | a | Illustrate with an example how Java achieves run time polymorphism. Analyse the pros and cons of run time polymorphism. | L | CO | [5M] |
| | b | How to call a method of a subclass, if you are holding an object of the subclass in a reference variable of type super class? Illustrate with example. | L | CO | [5M] |

(OR)

- | | | | | | |
|-------------|---|--|---|----|------|
| 6 | a | How do you create a thread? Explain with an example | L | CO | [5M] |
| | b | Illustrate the techniques to prevent method overriding in Java | L | CO | [5M] |
| 7 | a | How do you read a CSV file in Java? | L | CO | [5M] |
| | b | Does finally run always? On which cases finally doesn't run? | L | CO | [5M] |
| (OR) | | | | | |
| 8 | a | What is the right way to close the streams in Java? | L | CO | [5M] |
| | b | What do you mean by user defined exceptions? | L | CO | [5M] |
| 9 | a | Illustrate the different ways to create String Object. | L | CO | [5M] |
| | b | Explain multi threading. Write about thread priority. | L | CO | [5M] |
| (OR) | | | | | |
| 10 | a | Write a program to tokenize a string having the following four delimiters | L | CO | [5M] |
| | b | What are the differences between Array List and Linked List | L | CO | [5M] |
| 11 | a | Write a program to insert employee objects into the Tree Set where default natural sorting order is ascending order of salaries. If two employees have same salary then consider alphabetical orders of their names, and Write a comparator class to define customized sorting which is alphabetical order of employee names. If two employees have same name then consider descending order of their age. | L | CO | [5M] |
| | b | Write a Java program to append the specified element to the end of a linked list. | L | CO | [5M] |
| (OR) | | | | | |
| 12 | a | Write a Java program to compare two tree sets. | L | CO | [5M] |
| | b | Write a program to sort Hash Map by keys. | L | CO | [5M] |
