Hall Ticket Number:

Code No. : 15109 S(A)

VASAVI COLLEGE OF ENGINEERING *(Autonomous)*, HYDERABAD

B.E. (CBCS) V-Semester Supplementary Examinations, May/June-2019

Introduction to JAVA Programming

(Open Elective-V)

Time: **3** hours Max. Marks: **70**

*Note: Answer **ALL** questions in **Part-A** and any **FIVE** from **Part-B***

Part-A (10 × 2 = 20 Marks

1. Is java robust? Justify your answer.
2. List different types of constructors.
3. What is the use of final keyword? Explain with appropriate examples.
4. Distinguish between abstract class and interface.
5. State any one difference between character and byte streams.
6. Identify the class used to retrieve the current date and write the code snippet to display the current date.
7. Differentiate between a standalone application and an applet.
8. List any two Event Listener interfaces available in Java.
9. Write any two advantages of using Java over C++.
10. Give the syntax to create package. Mention any two predefined packages available in Java.

Part-B (5 × 10 = 50 Marks)
(All sub-questions carry equal marks)

11. a) Explain the basic features of Java.

    b) Write a program to

    - Create a new Class Customer
    - Create 2 instance variables- custId and custName
    - Add new method print()
    - Add a new method setvalues() to set the values of custId and custName

    Create instance of the class and invoke print method.

12. a) Illustrate the significance of Exception Handling with an example program.

    b) Write a program to declare an interface – "shape" and implement it.

13. a) Explain the importance of StringTokenizer with an example.

    b) Write a Java program which reads a text file "demo.txt"and displays its contents on the console. If the file is not present the program must handle the exception.

14. a) Explain the Delegation Event Mode.

    b) Illustrate the Lifecycle of an applet with a suitable example.

Contd... 2

15. a) Explain Constructor overloading with an example.

b) Analyze and write the output for the following code.

```
Class A
{
final void meth()
{
System.out.println("method in class A");
}}
Class B extends A
{
void meth()
{
System .out.println("method in class B");
}}
```

16. a) What is the need for Random class? In which package is it present?

b) Explain FileInputStream and FileOutputStream along with an example.

17. Answer any *two* of the following:

a) Compare Method Overloading and Overriding along with an example.

b) Explain the different layout Managers.

c) With the help of a program, demonstrate how to handle ArrayIndexOutOfBoundsException in Java.