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**DHANALAKSHMI SRINIVASAN COLLEGE  
OF ARTS & SCIENCE FOR WOMEN  
(AUTONOMOUS)**

(For Candidates admitted from 2019 - 2020 onwards)



**UG DEGREE EXAMINATIONS APRIL - 2021**

**B.Sc., – COMPUTER SCIENCE**

**JAVA PROGRAMMING**

**Time: 3 Hrs**

**Max.Marks: 75**

**PART - A**

**CHOOSE THE CORRECT ANSWER**

**(10X1=10)**

1. Which of the following best defines a class?
  - a) Parent of an object
  - b) Instance of an object
  - c) Blueprint of an object
  - d) Scope of an object
2. Which of these is not a bitwise operator?
  - a) &
  - b) &=
  - c) |=
  - d) <=
3. What is true about constructor?
  - a) It can contain return type
  - b) It can take any number of parameters
  - c) It can have any non-access modifiers
  - d) Constructor cannot throw an exception
4. Which of these methods is used to add elements in vector at specific location?
  - a) add ()
  - b) set()
  - c) AddElement()
  - d) addElement()
5. Which of the following is the correct way of importing an entire package 'pkg'?
  - a) import pkg.
  - b) import package
  - c) import pkg.\*
  - d) Import pkg.\*
6. Which of the following will directly stop the execution of a Thread?
  - a) wait()
  - b) notify()
  - c) notifyall()
  - d) exits synchronized code
7. Which of these classes is used to define exceptions?
  - a) Exception
  - b) Throwable
  - c) Abstract
  - d) System
8. Which of these classes is used to read and write bytes in a file?
  - a) File Reader
  - b) File Writer
  - c) File Input Stream
  - d) Input Stream Reader
9. Which method is first Called for any applet when it starts its execution?
  - a) void init()
  - b) void destroy()
  - c) booleanis Active()
  - d) None of the above

10. The following specifies the advantage of it is lightweight. It supports pluggable look and feel. It follows MVC (Model View Controller) architecture.

- a) Swing
- b) AWT
- c) Both A & B
- d) None of the above

**PART - B**

**ANSWER ALL THE QUESTIONS**

**(5X7=35)**

11. a) Illustrate the basic concepts of object-oriented programming.

**(OR)**

b) Write notes on Data Types in Java.

12. a) Elucidate about Overloading Methods in Java.

**(OR)**

b) Discuss about concept of Classes, Objects and Methods in JAVA.

13. a) Explain thread life cycle and thread creation in Java with example.

**(OR)**

b) List the mostly used java API packages and explain how to add more classes to a package.

14. a) Mention the types of exceptions. Explain about exception handling in Java.

**(OR)**

b) Illustrate about Byte Stream and Character Stream with example

15. a) Explain about Class Hierarchy in Abstract Window Toolkit (AWT).

**(OR)**

b) Elucidate the importance of Event Handling in AWT.

**PART - C**

**ANSWER ANY THREE QUESTIONS**

**(3X10=30)**

16. Describe the various operators available in Java? Discuss each with an example.

17. What is meant by Inheritance and why it is important in Object Oriented Programming? Explain different types of inheritance supported in JAVA with example programs.

18. Explain Multithreads with example.

19. Discuss about Reading and Writing Files with example.

20. Elucidate about the various graphics methods supported by AWT with examples. How color of an object can be changed?