

N.G.M. COLLEGE (AUTONOMOUS): POLLACHI**END-OF-SEMESTER EXAMINATIONS: DECEMBER – 2022****B.Sc. – COMPUTER TECHNOLOGY****MAXIMUM MARKS: 70****III SEMESTER****TIME: 3 HOURS****PART - III****JAVA PROGRAMMING****SECTION – A****(10 X 1 = 10 MARKS)****ANSWER THE FOLLOWING QUESTIONS. MULTIPLE CHOICE****QUESTIONS.****(K1)**

1. Which of the following is not a Java feature?
 - a. Dynamic
 - b. Architecture Neutral
 - c. Use of pointers
 - d. Object-oriented
2. What do you mean by nameless objects?
 - a. An object created by using the new keyword.
 - b. An object of a superclass created in the subclass.
 - c. An object without having any name but having a reference.
 - d. An object that has no reference.
3. How many threads can be executed at a time?
 - a. Only one thread
 - b. Multiple threads
 - c. Only main (main () method) thread
 - d. Two threads
4. Which of these functions is called to display the output of an applet?
 - a. display ()
 - b. print ()
 - c. display Applet ()
 - d. Print Applet ()
5. Which of these is used to perform all input & output operations in Java?
 - a. Streams
 - b. Variables
 - c. Classes
 - d. Methods

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.**(K2)**

6. Define Variable.
7. Define Class.
8. Recall the uses of Thread.
9. Write the functions of start () method.
10. Why Data Input Stream is required ?

SECTION – B (5 X 4 = 20 MARKS)**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Recall the use of static void main (String args []) in Java.

(OR)

- b) Compare the features of java and C++ .

12. a) Describe the use of super keyword.

(OR)

- b) How Multiple Inheritance implemented in Java? Explain.

13. a) Discuss various Thread Creating methods in Java.

(OR)

- b) List the types of threads in Java? Explain.

14. a) Differentiate execution of applications and applets.

(OR)

- b) Construct Java Program to draw a circle .

15. a) Describe the use of System.Err.

(OR)

- b) Describe the functions of File Output Stream.

SECTION – C**(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS.****(K4 / K5)****(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS.**

16. Explain various Data types in Java.
17. Discuss Operators and Expressions.
18. Describe the features of inheritance.
19. Sketch the Life Cycle of a Thread.
20. Discuss Applet life cycle in java with diagram.
21. Discuss the use Character Stream Classes.