

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc(SS) DEGREE EXAMINATION MAY 2023.
(Third Semester)

Branch – SOFTWARE SYSTEM (Five Years Integradate Course)

PROGRAMMING IN JAVA

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

- 1 Which one is a collection of tools that are used for developing and running java programs?
i) API ii) JDK iii) JSL iv) AWT
- 2 A special type of method called _____ that enables an object to initialize itself when it is created.
i) Constructor ii) Method declaration
iii) Methods overloading iv) Interface
- 3 A thread is said to be _____ state when it is prevented from entering into the runnable state.
i) Dead ii) Running iii) Newborn iv) Blocked
- 4 The component class is the super class in _____.
i) java.lang ii) java.io iii) java.awt iv) java.net
- 5 A _____ type is a type whose fields consist of a fixed set of constants.
i) enum ii) vector iii) set iv) map

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a) Explain about the abstract class in java.
OR
b) Write a JAVA program to sorting a list of numbers using an array.
- 7 a) State the difference between class and Interface.
OR
b) Develop a java program to illustrate the nested try catch statements.
- 8 a) How to define thread? Give its syntax.
OR
b) Write a java program to implement thread class with runnable interface.
- 9 a) State the different ways to read input from console in Java.
OR
b) Show the native method in java.
- 10 a) What is generic class? How to create and use generic class?
OR
b) Describe the need of wrapper class.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a) Explain in detail the basic concepts of object oriented programming.
OR
b) With neat syntax express the switch..case statement with example program.
- 12 a) Enumerate how to create and access the packages.
OR
b) Elucidate the various kinds of common java exceptions.
- 13 a) Outline the importance of Inter-thread communication in java.
OR
b) Enumerate the synchronization with its methods with suitable thread program.
- 14 a) Give detailed notes on I/O stream classes in java.
OR
b) Write a program to create student registration form using Applet with following fields.
Name of the student, Address, Sex, Class, Mobile number, Mail-id.
- 15 a) Differentiate between for loop with enhanced for loop in java.
OR
b) Explain Varargs with neat syntax and example.

Z-Z-Z

END