PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc(SS) DEGREE EXAMINATION MAY 2025
(Third Semester)

Branch - SOFTWARE SYSTEMS(Five Years Integrated)
PROGRAMMING IN JAVA

Time: Three Hours   Maximum: 75 Marks

SECTION-A (10 Marks)
Answer ALL questions

ALL questions carry EQUAL marks   (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Identify the bitwise XOR operator. a) ~ b) * c) ^ d) !	K1	CO1
	2	The technique used to acquires the properties from one class to another class. a) Polymorphism b) Data abstraction c) Encapsulation d) Inheritance	K2	CO1
2	3	The keyword used to a set of methods that can be implemented by one or more classes a) Interface b) package c) include d) import	K1	CO2
	4	System-generated exceptions are automatically thrown by the a)Java Interpreter b) Java runtime System c) Java Compiler d) Operating System	K2	CO3
3	5	The smallest unit (light weight) of dispatchable code is a) Process b) Instruction c) Program d) Thread	K1	CO1
	6	Which method allows you to specify the period in terms of milliseconds and nanoseconds? a) wait() b) stop() c) sleep() d) suspend()	K2	CO2
4	7	In read() method the end of the stream is encountered by a) return 0 b) return 1 c) return -1 d) return null	K1	CO3
	8	The method used to redisplay the output in applet. a) draw() b) paint() c) color() d) display()	K2	CO2
5	9	Which facility eliminates the drudgery of manual conversion between primitive types and wrapper types? a) Class data sharing b) Autoboxing/unboxing c) Autocasting d) Typecasting	K1	CO2
	10	An object that stores associations between keys and values, or key/value pairs a) Map b) Pairs c) Lists d) Set	K2	CO2

SECTION - B (35 Marks)
Answer ALL questions
ALL questions carry EQUAL Marks   (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Develop a program for multiway branch statement.	K2	CO3
		(OR)		
	11.b.	List the usage of abstract classes in Java.		
2	12.a.	Address the four types of visibility for class members.	K4	CO5
		(OR)		
	12.b.	Inspect the finally clause in exception handling.		
3	13.a.	Assess the Thread priorities in Java environment.	K4	CO4
		(OR)		
	13.b.	Enumerate the deadlock in synchronized objects.		
4	14.a.	Implement how to writing a console output.	K5	CO5
		(OR)		
	14.b.	Analyze the top level container panes in Swing.		
5	15.a.	Justify the use of Generics via example.	K5	CO5
		(OR)		
	15.b.	Appraise the usage of Set interface in Java.		

SECTION -C (30 Marks)
Answer ANY THREE questions
ALL questions carry EQUAL Marks   (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Enumerate the Iterative statements with example.	K3	CO3
2	17	Illustrate design and implementation of interface in detail.	K3	CO4
3	18	Demonstrate the creation and implementation of Thread.	K4	CO4
4	19	Assess the Applet fundamentals through an example.	K5	CO5
5	20	Examine the map, sorted map and navigable map interfaces	K5	CO5

Z-Z-Z   END