PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

MSc(SS) DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

Branch - SOFTWARE SYSTEMS (five year Integrated)

PROGRAMMING IN JAVA

Time: Tiffee riours				IV	daximum: 50 Marks	
SECTION-A (5 Marks)						
Answer ALL questions						
	ALL questions carry EQUAL marks $(5 \times 1 = 5)$					
1	is a feature that allows one interface to be used for a general class of					
	actions.	ii) Inheritance	iii) Dalumamh	iam	ivi) Intenfora	
2	The term refers to a class's direct ancestor or to any of its ascendant classes					
		ii) super class	iii) class hieros	cohy	iv) class instance	
3						
					iv) Four	
4	A class is de	eclared by use of the	ekeywe	ord.		
	i) object	ii) class	iii) instance		iv) method	
5	The new operator dynamically allocates for an object and returns a					
	reference to it.					
	i) classes	ii) variables	iii) memory		iv) devices	
		SECTI	ON - R (15 Mort	(6)		
SECTION - B (15 Marks) Answer ALL Questions						
					$(5 \times 3 = 15)$	
6 9						
6 a Classify the bitwise operators used in Java with example. OR						
b	Elaborate the different types of constructor.					
/ a	what is a par	What is a package? How to create a package? OR				
b	b Illustrate the 'try' and 'catch' statement with example program.					
8 a	State the basic concept of Inter Thread Communication.					
OR						
b	Outline the methods used to synchronize threads.					
9 a	How do applets differ from application programs in java? Give syntax.					
OR					Sylicax.	
b	Discuss the advantages of JavaScripts.					
0 a	Show the use of static import statement in J2SE.					
	OR					
b	Determine the	e enhanced for loop	statement in J2SF	Ξ.		

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Compare and contrast overriding and overloading a method.

OR

- b Enumerate the basic data types used in java with suitable example.
- 12 a Discuss the various forms of implementing interfaces with examples.

OR

- b Write a java program to find the sum of the digits of a given integer.
- 13 a How to create a thread? Describe.

OR

- b Analyze the types of methods in thread priorities.
- 14 a Discover the different types of stream classes with example.

OR

- b Write a java applet program that simulates a traffic light.
- 15 a Elucidate the difference between auto boxing and auto unboxing.

OR

b Write a java program to count the number of vowels in the given string.

Z-Z-Z

END