PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BVoc DEGREE EXAMINATION DECEMBER 2024
(Second Semester)
Branch – NETWORKING AND MOBILE APPLICATIONS
OBJECT ORIENTED PROGRAMMING USING 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	Which of the following is not a principle of Object-Oriented Programming (OOP)? a) Encapsulation b) Abstraction c) Inheritance d) Compilation	K1	CO1
	2	In Java, which of the following defines the state and behavior of an object? a) Class b) Method c) Object d) Variable	K2	CO1
2	3	What type of inheritance is not supported in Java? a) Single inheritance b) Multiple inheritance using classes c) Multilevel inheritance d) Hierarchical inheritance	K1	CO1
	4	If class B inherits class A, and class C inherits class B, what type of inheritance is this? a) Single inheritance b) Multiple inheritance c) Multilevel inheritance d) Hierarchical inheritance	K2	CO1
3	5	Which of the following is the parent class of all exceptions in Java? a) Throwable b) Exception c) RuntimeException d) Error	K1	CO1
	6	Which of these keywords is used to handle exceptions in Java? a) try b) catch c) finally d) All of the above	K2	CO1
4	7	Which class is used to read from a file in Java? a) FileReader b) FileInputStream c) BufferedReader d) All of the above	K1	CO1
	8	The FileOutputStream class in Java is used for: a) Writing byte data to a file b) Reading byte data from a file c) Writing character data to a file d) Reading character data from a file	K2	CO1
5	9	Which of the following is the base class for applets in Java? a) AppletContext b) AppletStub c) Applet d) JApplet	K1	CO1
	10	Which of the following method is called only once during the applet's lifecycle? a) start() b) init() c) paint() d) destroy()	K2	CO1

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.	Explain in details about basic concept of OOPs.	K2	CO2
		(OR)		
	11.b.	Illustrate the concept of constructor with example.		
2	12.a.	Develop the concept of inheritance with example.	K3	CO2
		(OR)		
	12.b.	Construct the concept of method overriding with example.		
3	13.a.	Discuss how exception handling is fundamental in managing object construction in Java.	K3	CO5
		(OR)		
	13.b.	Develop a comprehensive understanding of the Java thread model.		
4	14.a.	Examine how event handling mechanism works in java.	K4	CO5
		(OR)		
	14.b.	Analyze the concept character stream class with example.		
5	15.a.	Examine the basic concepts of Java applets and their lifecycle methods.	K4	CO5
		(OR)		
	15.b.	Analyze the applet architecture with example.		

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	Examine the various methods provided by the String class in Java for handling and manipulating strings.	K4	CO5
2	17	Analyze how to importing a package in java? Explain with proper example.	K4	CO5
3	18	Analyze the different types of exceptions in Java. Discuss the distinction between checked and unchecked exceptions.	K5	CO5
4	19	Evaluate the event listener mechanism in java and how it supports event-driven programming.	K5	CO5
5	20	Analyze the structure and lifecycle of an applet in Java. Construct a complete applet skeleton, explaining each component and its role.	K5	CO5

Z-Z-Z   END