



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme – B.Tech.(CSE)-AIML-2021/B.Tech.(CSE)-DS-2021/B.Tech.(CSE)-AIML-2022/B.Tech.(CSE)-DS-2022

Course Name – Object Oriented Programming
Course Code - PCC-CSM403/PCC-CSD403
(Semester IV)

Time: 2:30 Hours Full Marks: 60 [The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.] Group-A 1 x 15=15 (Multiple Choice Type Question) Choose the correct alternative from the following: is a not concept of OOP (JAVA) (i) State, ___ b) Inheritance a) Encapsulation d) Compilation c) Polymorphism (ii) Select which one is not a iterative statement? b) while() a) for(; ;) d) if-else c) do-while (iii) Select which statement is true for Java b) Platform dependent a) Platform independent d) Sequence dependent c) Code dependent (iv) _____is a method that initializes an object immediately upon creation. It has the same name as that of class in which it resides. b) class a) finalize d) constructor c) delete (v) Select from the following which keyword can be used to refer current class instance variable. b) abstract a) import d) this c) catch (vi) Write from the following which is true for args in the following line of code? public static void main(String args[]) b) args is an array of String a) args is a String d) args in an array of Character c) args is a Character (vii) Identify which of these keywords is used to prevent content of a variable from being

b) constant

d) static

modified?
a) final

c) last

(viii) Inheritance is an example of which type of hierar	chy? Choose the correct options	
 a) Class Structure c) Class structure and Object Structure (ix) Write, which of the following are not the method 	b) Object Structure d) None of the mentioned ds of the Thread class?	
a) yield() c) go() (v) Determine, when does Exceptions in Java arises	b) sleep() d) stop() in code sequence?	
	d) None of the mentioned	
a) try c) throw (xii) Write,which exception is thrown when divide by	b) finally d) catch zero statement executes	
a) NumberFormatExceptionc) NullPointerException(xiii) Identify the superclass of all AWT components?	b) ArithmeticExceptiond) None of These	
a) Component c) Container (xiv) Determine which method is used to set the font	b) Widget d) Control for a component in Java AWT?	
a) setFont() c) setFontStyle() (xv) Write the purpose of the repaint() method in Jar	b) setStyle() d) setComponentFont() va AWT?	
a) To update the component's visibilityc) To resize the component	b) To refresh the component's appearance d) To remove the component from the scr	een
Group-B (Short Answer Type Questions) 3 x 5		x 5=15
7 Compare netween static and dynamic polymorphism with example:		(3) (3) (3) (3) (3)
OR Explain the concept of message passing in Object-Oriented Programming (OOP), discussing (3) its role in object interaction.		
Grou		
(Long Answer Ty	ype Questions)	5 x 6=30
7. Explain about JVM, JRE and JDK.8. Summarize the different uses of "this" keyword in JAVA with examples.9. Explain how abstract classes and methods are utilized in Java, and what purpose do they serve in object-oriented programming?		(5) (5) (5)
10. Explain the concept of multilevel hierarchy in inheritance and provide an example demonstrating its use.		(5)
11. Explain deadlocks for threads, and how do they12. Explain the concept of layout managers in Java A different layout managers.		(5) e (5)