	ADAMAS UNIVERSITY		
	END-SEMESTER EXAMINATION : JANUARY 2021		
	(Academic Session: 2020 – 21)		
Name of the Program: (Example: B. Sc./BBA/MA/B.Tech.)	BCA	**Semester:** (I/III/ V/ VII/IX)	V
Paper Title :	Programming Paradigm	**Paper Code:**	ECS33103
Maximum Marks :	40	**Time duration:**	3 hrs
Total No of questions:	8	**Total No of Pages:**	2
(Any other information for the student may be mentioned here)			

Answer all the Groups
Group A
Answer all the questions of the following $5 \times 1 = 5$

1. **a)** What is the main focus of procedure-oriented programming approach?
b) Mention the use of the keyword 'super'.
c) What is an AWT component?
d) What are the benefits of multi-threading in Java?
e) What is a generic type in Java?

GROUP –B
Answer *any three* of the following $3 \times 5 = 15$

2. a) Define a method in Java.
b) What are the method components?
c) Write the general form of method prototype.   1+1+3
3. Explain the AWT hierarchy with a suitable diagram.   5
4. Write a Java Swing program that helps in creating some check boxes and radio buttons. When the user clicks on a check box or radio button, the selected option text will be displayed in the text area.   5
5. What is the try catch block used for in Java? Explain with the help of a suitable Java program.   2+3

GROUP –C
Answer *any two* of the following $2 \times 10 = 20$

6. a) Differentiate between method overloading and method overriding. Mention five points of difference between them.
b) Write a Java Swing program to create a push button. When the button is clicked, an image is displayed in the Frame.   5+5

7. a) What is a generic method in Java?

b) Write a Java program for a generic method that receives an array and displays the elements of the array. The array elements may be of any data type.

c) How will you create a Frame in AWT? Explain with suitable Java code.

$$2+4+(2+2)$$

8. a) What is the major difference between dynamic binding and static binding? Explain.

b) Mention the two ways of creating a Thread in a Java program with example.

$$5+5$$

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