	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)	**III**
Paper Title :	**OBJECT ORIENTED PROGRAMMING**	**Paper Code:**	**ECS32103**
Maximum Marks :	**40**	**Time duration:**	**3 Hrs.**
Total No of questions:	**08**	**Total No of Pages:**	**01**
(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)** Define Class.

b) Define Object.

c) State the differenece between Class and Object.

d) Discuss the importance of attributes and methods of a Class.

e) Discuss the difference between Procedure Oriented Programming and Object Oriented Programming.

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

2.   Explain the followings with suitable example:
i. Private ii. Protected iii. Public iv. Default .

3.   Discuss why Java is known as Fully Object Oriented Programming Language.

4.   Explain the concept of Packages in Java with suitable example.

5.   Discuss why main method in Java is defined as *public static void main ( )*
GROUP –C
Answer *any two* of the following $2 \times 10 = 20$

6.   Explain with Java programs all types of Inheritance available in Java using Class and Interfaces.

7.   Explain the concept of Garbage collection in Java with a complete program.

8.   Write a complete Java program to implement Employee Management System using the following objects:
        i. School ii. Department. iii. Employee iv. Leaves.

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