

--	--	--	--	--	--	--	--	--	--



**GIET UNIVERSITY, GUNUPUR – 765022**  
**M. C. A (Fourth Semester) Examinations, May' 2021**  
**MCA401- PROGRAMMING WITH JAVA**

Time: 2 hrs

Maximum: 50 Marks

**The figures in the right hand margin indicate marks.**

**PART – A****(2 x 10 = 20 Marks)**Q.1. Answer **ALL** questions

- a. What is Object Oriented Programming?
- b. What are the features of JAVA?
- c. What is the constructor?
- d. What is the difference between break and continue statements?
- e. What are the main uses of this keyword?
- f. What is the Inheritance?
- g. What are access modifiers in Java?
- h. How do you communicate in between Applets and Servlets?
- i. What is java AWT?
- j. What is serialization?

**PART – B****(6 x 5 = 30 Marks)**Answer **ANY FIVE** questions

Marks

2. What is Garbage Collection? What are the Advantages and how can an object be unreferenced? **(6)**
3. What are the access modifiers in java and explain in detail with relevant examples? **(6)**
4. What is Thread and explain life cycle of thread with example? **(6)**
5. What is String? What are the different string Class methods with example? **(6)**
6. What is Java Beans? What are JavaBean Properties and explain the Implementation of JavaBeans with example. **(6)**
7. What do you mean by AWT and explain AWT hierarchy? Explain AWT Example by Inheritance and Association. **(6)**
8. What is JFrame, How to create a JFrame with all operation? **(6)**
9. Define Applet and explain Graphics in applet with example? **(6)**

--- End of Paper ---