

 <p>ADAMAS UNIVERSITY PURSUE EXCELLENCE</p>	<p align="center">ADAMAS UNIVERSITY END-SEMESTER EXAMINATION : MAY 2021 (Academic Session: 2020 – 21)</p>		
Name of the Program:	B. Tech	Semester:	IV
Paper Title :	Object Oriented Programming	Paper Code:	ECS42114
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)	<ol style="list-style-type: none"> 1. At top sheet, clearly mention Name, Univ. Roll No., Enrolment No., Paper Name & Code, and Date of Exam. 2. All parts of a question should be answered consecutively. Each Answer should start from a fresh page. 3. Assumptions made if any, should be stated clearly at the beginning of your answer. 		

Answer all the Groups

Group A

Answer all the questions of the following

5 x 1 = 5

1. a) What is the difference between blocking and stopping a thread?
b) What is a final keyword?
c) Define Hierarchical inheritance.
d) Differentiate between final, finally and finalize ().
e) Mention the various sections of a web page.

GROUP –B

(Short Answer Type Questions)

Answer any three of the following

3 x 5 = 15

2. i) Define constructor with a suitable example.
ii) Write a java program to implement the concept of nesting of methods. **[2 + 3]**
3. i) What is method overriding?
ii) Write a java program to make method overriding compulsory. **[1 + 4]**

4. i) What is multiple inheritance?
ii) Write a java program to implement the concept of multiple inheritance. [1 + 4]
5. i) What is an exception?
ii) Write a java program to throw your own exception. [1 + 4]

GROUP –C
(Long Answer Type Questions)
Answer *any two* of the following

2 X 10 = 20

6. i) Create a try block that is likely to generate three types of exception and then incorporate necessary catch blocks to catch and handle them appropriately.

ii) Write a java program to create a thread by implementing runnable interface.

iii) Describe the different stages in the life cycle of an applet with a suitable block diagram. [3 + 3 + 4]
7. i) Describe the three ways of drawing polygons.

ii) Write an applet to draw a circle inside a square.

iii) Describe the three different ways by which a running thread may relinquish its control to another thread. [3 + 4 + 3]
8. i) Write a java program to set and retrieve the priority of a thread.

ii) Develop an applet that receives three numeric values as input from the user and then displays the largest of the three on the screen. Write a HTML page and test the applet. [4 + 6]
-