	ADAMAS UNIVERSITY **END SEMESTER EXAMINATION** (Academic Session: 2020 – 21)		
Name of the Program:	B.Sc	**Semester:**	II
Paper Title:	Programming In Java	**Paper Code:**	CSE11306
Maximum Marks:	50	**Time Duration:**	3 Hrs
Total No. of Questions:	**17**	**Total No of Pages:**	2
(Any other information for the student may be mentioned here)	**1.** At top sheet, clearly mention Name, Univ. Roll No., Enrolment No., Paper Name & Code, 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.		

Group A **Answer All the Questions (5 x 1 = 5)**			
1	How many primitive data types are there in JAVA?	**R**	**CO1**
2	Which access specifier can be used for a class so that its members can be accessed by a different class in the same package?	**R**	**CO2**
3	What is the correct ordering for importing a class?	**R**	**CO3**
4	Name some of the most common types of exceptions that might occur in java.	**R**	**CO5**
5	What is join() method?	**R**	**CO5**
Group B **Answer All the Questions (5 x 2 = 10)**			
6 a)	What are the features of Java? Explain in brief.	**R**	**CO1**
	(OR)		
6 b)	What is JVM?	**R**	**CO1**
7 a)	What is the difference between *while* and *do-while* loop?	**R**	**CO2**
	(OR)		
7 b)	What are the different components of Object Oriented paradigm?	**R**	**CO2**
8 a)	Define constructor with a suitable example.	**R**	**CO3**
	(OR)		
8 b)	What is method overloading?	**R**	**CO3**
9 a)	What is multithreading?	**R**	**CO5**
	(OR)		
9 b)	What is thread priority?	**R**	**CO5**
10 a)	Why doesn't Java support Multiple Inheritance?	**R**	**CO4**
	(OR)		
10 b)	When do we define a method or class **abstract**?	**R**	**CO4**
Group C **Answer All the Questions (7 x 5 = 35)**			
11 a)	What is typecasting? Why it is required in the program?	**R**	**CO1**
	(OR)		

11 b)	Develop a program in java to design a calculator with all the five operations: a. Addition b. Subtraction c. Multiplication d. Division e. Modulo	**AP**	**CO1**
12 a)	Develop a Java program in java to print the following triangle: 1 01 101 0101 10101	**AP**	**CO2**
	(OR)		
12 b)	What is Encapsulation? Explain how encapsulation provides modularity and information hiding?	**R,U**	**CO2**
13 a)	Briefly explain Static binding and Dynamic binding	**U**	**CO3**
	(OR)		
13 b)	Construct a Java program to illustrate the concept of single inheritance	**AP**	**CO3**
14 a)	Explain Array List and Vector with examples.	**U**	**CO4**
	(OR)		
14 b)	Explain different constructors to handle java file.	**U**	**CO4**
15 a)	Explain the life cycle of JAVA thread.	**U**	**CO5**
	(OR)		
15 b)	Develop a java program to use the yield ( ), stop ( ) and sleep ( ) methods of a thread.	**U**	**CO5**
16 a)	Develop a java program to use the yield ( ), stop ( ) and sleep ( ) methods of a thread.	**AP**	**CO5**
	(OR)		
16 b)	Develop a java program implement synchronization between methods	**AP**	**CO5**
17 a)	Develop an applet that receives three numeric values as input from the user and then displays the largest of the three on the screen.	**AP**	**CO6**
	(OR)		
17 b)	Discuss different stages in the life cycle of an applet.	**C**	**CO6**