CCode No.: CS614OE

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

III-B.TECH-II-Semester End Examinations (Regular) - May- 2023 JAVA PROGRAMMING

(ECE)

[Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question

carries 10 marks and may have a, b, c as sub questions.

	PART-A	(20 Marks)
1. a) b) c) d) e) f) g) h) i)	What is a class and object? Define Method Overloading and Overriding. Define super and sub classes. What are abstract classes? What is thread in Java? What do you mean by multiple processes? List various file class methods in Java. What is the Collection framework in Java? Summarize the uses of appletviewer? What is a listener in context to event handling?	[2M] [2M] [2M] [2M] [2M] [2M] [2M] [2M]
	PART-B	(50 Marks)
2.a) b)	How are arrays declared and initialized in Java? Explain with suitable Java Program. List the various primitive data types available in Java and explain.	[6M] [4M]
OR		
3.a) b)	Explain Conditional and looping statements in Java with examples. Write a short notes on Type casting and Type Conversion in Java.	[7M] [3M]
4.	What is an inheritance? Discuss various types of inheritance with suitable example. OR	[10M]
5.	What is Package? How to Create, Access and Import the package in Java? Explain with example.	n an [10M]
6.	What is an exception? Explain different exception handling mechanisms with suitable example?	[10M]
7 - \	OR Write a Java program to explain thread priorities usages.	[7M]
7.a) b)	Explain how thread can be synchronized.	[3M]
8.a) b)	Discuss the various steps required to set the JDBC connectivity with Backend Database Discuss random access file operations with example. OR	e. [6M] [4M]
9.	Discuss in detail commonly used collection classes in Java.	[10M]
10.a) b)	What is an event? Explain the models available for event handling? Explain the relationship between Event sources and Listeners. OR	[6M] [4M]
11.a) b)	What is an Applet? Discuss with a sample Java Program. Discuss Applet Security issues.	[7M] [3M]