

				Sub	ject	Cod	le: k	CA	202
Roll No:									

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MCA (SEM II) THEORY EXAMINATION 2021-22 OBJECT ORIENTED PROGRAMMING

Time: 3 Hours Total Marks: 100

ttem	pt all questions in brief. 2x1	0=2
Qno	Questions	CO
(a)	Explain difference between JDK and JRE in Java.	1
(b)	Object is an instance of class, justify your answer.	1
(c)	What is the role of class path in Java Package?	2
(d)	Write 3 use of Encapsulation in Object Oriented Programming.	2
(e)	Explain difference between throws and throw keyword in Java.	3
(f)	Draw hierarchical diagram of Java.io package.	3
(g)	Explain types of ways to create thread in Java.	4
(h)	Explain generic programming concepts in Java.	4
(i)	Draw hierarchical diagram of Java Swing Classes.	5
(j)	What is the difference between JPanel and JFrame in Java Swing?	5
	SECTION B	
ttem	pt any three of the following:	3 = 3
Qno	Questions	CO
(a)	What are uses of this keyword? Explain with proper example.	1
(b)	Explain the role of constructor and also explain how	sûb
	constructor implicitly call super class constructor in Java.	
(c)	Write Java program to copy one image to another.	3
(d)	Write generic Java program that display sum if pass numeric data and	4
	merge text if pass string data.	
(e)	Explain difference between AWT and Swing with proper example.	5
	SECTION C	
	· · · · · · · · · · · · · · · · · · ·	1 = 1
Qno	Questions	CO
(a)	Explain the compilation and execution process of Java program with	1
(b)	proper diagram. Explain 10 features of Java Programming Language.	1
()		$\frac{1}{1 = 1}$
Qno	Questions	CO
(a)	`	y ð e
(<i>u</i>)	polymorphism with proper example.	<i>)</i> P ·
(b)	What do you mean by abstract class? How abstract class is different	2
	from Interface.	
	pt any <i>one</i> part of the following:	1 = 1
ttem	pe any one pare of the fond wing.	
Attem Qno	Questions	CO

Temperature" when the temperature above 20C and below 40C and throw an Exception "Temperature is High" when the it is greater than

40C.



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(b)	Explain the use of Buffered Reader and Buffered Writer classes with	
	suitable example	3

6. Attempt any *one* part of the following:

10x1 = 10

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Qno		Questions	CO
(a)	Describe	how inter- thread communication is takes place in java with	4
	thread life	cycle diagram?	
(b)	Discuss g	generic bounded class with the help of an suitable example.	4

7. Attempt any *one* part of the following:

10x1 = 10

Qno	Questions	CO
(a)	Write Java Swing program that change background color whenever	5
	user click on button and displays the message "Welcome to Java	
	Swing".	
(b)	Determine event? How is event handling done in Java'? Explain with	5
	an example.	