## CDOE MASTER OF COMPUTER APPLICATIONS (CBCS - 2020 COURSE) M.C.A. Sem-I: WINTER: - 2021

SUBJECT: JAVA PROGRAMMING

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N.B.:		
1)	Attempt any <b>THREE</b> questions from Section –I and any <b>TWO</b> questions from Section–II.	om
2)	Figures to the right indicate <b>FULL</b> marks.	
3)	Answers to both the sections should be written in <b>SAME</b> answer book.	
	SECTION-I	
Q.1	What is JVM? Explain architecture of JVM with neat diagram.	(10
Q.2	What is garbage collection? Explain advantages of it.	(10
Q.3	What is Stringbuffer class? Explain any two methods of Stringbuffer class.	(10
Q.4	What is an interface? How it is different from a class?	(10
Q.5	Write short notes on any <b>TWO</b> of the following:	(10
a)	Wrapper classes	
<b>b</b> )	Multidimensional arrays	
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c)	User defined exception	
	SECTION-II	
Q.6	Write a Java program that shows how FileInputStream class is used for reading bytes from file and FileOutputStream class is used to write into a file.	(15
	Explain vector with example.	(15
Q.7	Explain vector with example.	`