CDOE

BACHELOR OF COMPUTER APPLICATIONS (CBCS-2018 COURSE) B.C.A. Sem-IV: WINTER: - 2021

SUBJECT: JAVA PROGRAMMING

: Thursday 17-02-2022		W-19008-2021 Time: 10:00 AM-01 Max. Marks: 70		
N.B.:	1) 2) 3)	Solve ANY FOUR from section-I and ANY TWO from section-II. Figures to the RIGHT indicate FULL marks. Both the section should be written in SAME answer book.		
		SECTION-I		
Q.1		What is an array in JAVA? Explain one dimensional array with example.	(10)	
Q.2		What is <i>constructor</i> ? What are its special properties? Also list types of constructors.	(10)	
Q.3	a)	Discuss the different level of access modifiers available in JAVA.	(05)	
	b)	What is package and why is it required in JAVA?	(05)	
Q.4		What is inheritance? Explain single inheritance with suitable example.	(10)	
Q.5	a)	Differentiate between an interface and a class	(05)	
	b)	Explain exception handling in JAVA.	(05)	
Q.6		Write short notes (ANY TWO):	(10)	
	a)b)c)	Branching statements Features of JAVA final keyword		
		SECTION-II		
Q. 7		What is a thread? Describe the complete life cycle of a thread.	(15)	
Q.8	a)	Write a JAVA program to calculate Fibonacci series up to n numbers.	(08)	
	b)	Write a JAVA program to find factorial of a number.	(07)	
Q.9		Design a class to represent a bank account. Create appropriate data members and write methods to perform following task. i) To initialize data members. ii) To deposit an amount. iii) To withdraw an amount after checking balance iv) To display the data members.	(15)	
		By making use of array of objects, hold data of 5 customers.		