M.C.A. First Semester (Second Year) (CGS)

15521: Java Programming: 3 MCA 3

	ages : e : Thr	2 ee Hours		AU - 3161 c. Marks : 80
4	Note:	s: 1. 2. 3. 4.	Due credit will be given to neatness and adequate dimensions. Assume suitable data wherever necessary. Illustrate your answer necessary with the help of neat sketches. Use of pen Blue/Black ink/refill only for writing book.	
1.	a)	**	program to print following pattern using command line arguments. * * * * * * * * *	8
	b)	What is	JDK? State and explain tools supported by JDK.	6
			OR	
2.	a)	Write a	program to calculate factorial of a number using command line arguments.	8
	b)	Explain i) Jav ii) By iii) Jvi	vac /te code	6
٦.	u.j	Howsu	dings are handled in Java? Explain.	¢
	b)	Write a	program to demonstrate the use of constructor overloading.	8
			OR	
4.	a)	Write a	program to accept a string from user and count vowels in a string.	8
	b')			6
5.	a)	Write pr	rocedure to create your own exception in Java. Show use of user defined exc ample.	eption 7
	b)	What ar	e threads? How threads are created and handled in java? Explain.	6
			OR	
6.	a)	ii) Th	nally block row rows	6

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	b)	Write a program to display numbers from 1 to 10 with a pause of 1 second in every printing. (* use thread class)	7
7.	a)	Explain i) Paint () ii) update () iii) repaint ()	6
	b)	Write a program to copy contents of text file "source.txt" into "destination.txt".	7
		OR	
8.	a)	Explain i) transient ii) volatile iii) File Input stream	6
	b)	Write a program to display following on applet area. SGBAU (use font-times New Roman, BOLD, 24 size)	7
9.	a)	How events are handled in java? Explain.	6
	bi	Write a program to display message Mouse pressed. Mouse Released. Mouse move etc. Whenever related operations are performed on mouse.	7
		OR	
10.	* 4 \$	Explain i) Adapter class ii) Inner class	8
	b)	What is Event class? Explain.	N.
11.	a)	What are menus? How they are added in a container? Explain	5
	b)	Write a program to convert temp, from Egrenheit to celeius using AWT controls.	8
		OR	
12.	a)	Write a program showing use of Frame class.	7
	b)	Explain: i) Grid layout ii) Card layout	6

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