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## MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

## FOURTH SEMESTER B. E. (COMPUTER) DEGREE EXAMINATION – DECEMBER 2006

SURIFCT: ADVANCED LAND

			(CR	EDIT SYS	OGRAMMING (( FEM)	CSE 210)
Tin	ne: 3 Hrs.		wednesd	ay, Decemb		May M. 1. 100
Ø	Answer any FIVI	E full que	estions			Max. Marks: 100
1A.	Explain the follo	owing oo	concepts:			
	i) Encapsula			eritance	iii) Polymorphi	em iv) obstant
1B.	Give a program	to illustra			o water parent	,
	i) Method ov					ch at a series of
						(10+10 = 20  marks)
						bear may may wall
2A.	Discuss "Access	protectio	n" with resp	ect to packa	ges.	
2B.	Define a stack in	terface. U	Jse it to imp	lement a fix	ed stack (fixed leng	th) and a Dynamic stack
	(doubles its size	on requir	ement).		and (inted felig	m) and a Dynamic stack
2C.	Write a java prog	gram to v	alidate the g	iven no. If t	he no. is outside the	e predefined range, raise
	an exception. Use	e an user	defined Exce	eption class.	and the outside the	e predefined range, raise
						(5+10+5 = 20  marks)
						(3+10+3=20  marks)
B.	displays 1 to n w thread should wai Describe interthree Give an example	it until bo	of 1 sec. vanth the thread unication us	alue of n is sterminates	10 for child1 and 2	eads. Each child thread 20 for child2. The main
						(6+6+8 = 20  marks)
A	D'					,
A.	Discuss the role of			applets:		
	i) init()	ii)	start()	iii) j	paint()	
	iv) stop()	v)	destroy()			
В.	Write an event dri		program to in	mplement th	e following:	
	Mouga autom (	Event			Actio	
	Mouse enters / ex	cits windo	)W	Displa	y a message "Er	ntered / Exited" at
	Mouse click / press / Release				/ left corner y "click / press /	Release" at current
	Mouse Moved			positio	n / "Moving mouse	at position x, y" at

(10+10 = 20 marks)

- 5A. How can you add, remove and respond to controls in a window?
- Display the status of individual check boxes in a checkbox Group of size 5. The checkbox Group allows the user to select any one of the 5 different operating systems.
- 5C. Write an applet program to create a  $4 \times 4$  grid and fills it with 15 buttons, each labeled with its index.

$$(5+8+7=20 \text{ marks})$$

- 6A. Discuss the steps involved in connecting a java program to a database. How can you implement read and write operations?
- 6B. Explain the steps that you must follow to create a new Bean.

$$(10+10 = 20 \text{ marks})$$

- 7A. Write a note on the following swing components:
  - Tabbed Panes ii) Trees i)
- 7B. Explain the life cycle of a servlet.
- 7C. How can you read the names and values of parameters that are included in a client request?

$$(10+5+5 = 20 \text{ marks})$$

