

(2	•	<b>CA - 404 : Op</b> Elective - II) (N	_	_	
Time: 3	Hou	rs]		[Total Marks	: 70
(1)	ВС	CA - 404 : Con (Elective	-	Graphics	
1 (a) (b)	(i) (ii) (iii) (iv) (v) (vi) Atte (i) (ii) (iii)	AS directed:  What is Compute Define term Reso.  What is Raster so List out Input de Define Bitmap in Define term Persi empt the following Explain CRT (Ca Explain Random-s Explain Application	lution. can disple vices. graphics stence. : (any th thode Ra scan disp on of Cor	ay ? ree) y Tube) lay in detail. nputer graph	
2 (a)	Do a (i) (ii) (iii) (iv)	as directed: Define term line Define Character What is Antialisi What is Grayscal Define Cell array	in compu attribute ng ? e ?	ter graphics.	<b>5</b>
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B. C. A. (Sem. - IV) Examination

April/May - 2014

(1) BCA - 404 : Computer Graphics

(Elective - I)

**BW-1674-1675** Seat No.

	(b)	Atte	empt the following: (any three)	12
		(i)	Explain Boundary file algorithm.	
		(ii)	Explain Bhesnham's algorithm.	
		(iii)	Write scan line polygon fill algorit	hm.
			Explain flood fill algorithm.	
3	(a)	Do a	as directed :	6
		(i)	Define term translation.	
		(ii)	What is Scaling?	
		(iii)	Define term Shear.	
		(iv)	What is Reflection?	
		(v)	Define Term Rotation.	
		(vi)	Transformation in which object is m	noved in a
			minimum distance path from one p	osition to
			another is called	
	(b)		empt the following: (any three)	12
		(i)	Write short note on translation transf	formation.
		(ii)	Explain composite transformation.	_
		(iii)	Explain Matrix representati	
			homogeneous coordinates in detail.	
		(iv)	Explain scaling transformation.	
4	(a)	Do a	as directed :	5
		(i)	What is text clipping?	
		(ii)	Define term viewing pipeline.	
		(iii)	Define term window.	
		(iv)	What is viewport?	
		(v)	What is point clipping?	
	(b)	Atte	empt the following: (any three)	12
		(i)	Explain line clipping algorithm.	
		(ii)	Explain Sutherland-Hoagemon	polygon
			clipping algorithm.	
		(iii)	Explain curve clipping in detail.	
		(iv)	Explain viewing coordinate reference detail.	e frame in
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## (2) BCA - 404 : Operating System

(Elective - II) (New Course)

1	(a)	Attempt the followings:	6
		(i) What is system call?	
		(ii) Define: Buffering.	
		(iii) What is multithreading?	
		(iv) What is difference between CUI and GUI	?
		(v) Define: Batch Processing	
		(vi) Define: Operating System.	
	(b)	Answer the following questions: (any three) 1	<b>2</b>
		(i) Which are the types of OS? Explai	n
		distributed OS in detail.	
		(ii) What is kernal? Explain types of kernal.	
		(iii) Explain the functions of OS in detail.	
		(iv) Explain layered system approach of OS i	n
		detail.	
2	(a)	Attempt the followings:	5
_	\ /	(i) What is the task of dispacher?	
		(ii) Define: Waiting time.	
		(iii) Define : Starvation.	
		(iv) algorithm is suitable for time-sharin	g
		$\overline{\text{OS}}$ .	Ü
		(v) Define : race condition.	
	(b)	Answer the following questions: (any three) 1	<b>2</b>
	, ,	(i) What is process? Explain state transitio	
		diagram of a process.	

- (ii) What is schedular? Explain types of schedulars in detail.
- (iii) Explain Round Robin algorithm with proper example.
- (iv) Consider the following set of processes with the length of CPU burst time given in milliseconds.

		1100055	Ailivai	Duist	
			Time	Time	
		$P_1$	0	7	
		$P_2$	2	4	
		$P_3$	4	1	
		$P_4$	5	4	
		Calculat	Waiting	age Turn around time and g time using preemptive SJF	
3 (a) (b)	(i) (ii) (iii) (iv) (v) (vi)	process What is What is Define: Deine: List the wer the f What i semapho	the dif? critical deadloo busy w deadlocl necessar following s sema	ference between thread and section problem?  ck recovery?  vaiting  k  ry conditions to occur deadlock g questions: (any two) 12  phore? Explain types of	 2
	(iii)	Explain	thread	synchronization in detail.	
<b>4</b> (a)	(i) (ii) (iii) (iv) (v)	What is Define: Define: What is	ıll form swappi Deman Page fa disk de	of ATU. ng ? n Pogging ault efragmentation ?	
(b)	Ans (i) (ii) (iii)	Explain What is types.	Paging fragme	g questions : (any two) 12 in detail. entation ? Explain with its	
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Process Arrival Burst