HBO-1184-85 Seat No. 721 B. C. A. (Sem. IV) Examination April / May - 2015 1. BCA - 404: Operating System (Elective - II) 2. BCA - 404: Computer Graphics (Elective - II)					
Time: 3 Hours] [Total Marks: 70					
1. BCA - 404 . Operating System (Elective - II)					
1 (a) Do as directed: (i) What is operating system? (ii) Full form of: GUI and CUI. (iii) What is Buffering? (iv) What is kernel? (v) List out the functions of O/S. (vi) What is client server model?					
 (b) Attempt the following: (any two) (i) Explain any three types of operating systems. (ii) What is monolithic systems? Explain layered systems of operating systems. (iii) Explain microkernel in operating system. 					
2 (a) Do as directed: (i) What is process? (ii) Define the term: Waiting time. (iii) What is context switch? (iv) What is ready queue? (v) Define the term: CPU burst and throughput.					

17	70 (b)	ANE	m the following (any two)		(1)
_	v	(i)	Explain process states in detail.	12	
		(ii)	Explain FCFS scheduling algorithm with	•	
		•	example.		
	•	(iii)			
		¥ •	example.		
				6	
3	(a)	Do a	as directed:	6	
			What is Thread?	U	
	8	(ii)	Define: Critical section.		
		(iii)	What is multitasking?		
		(iv)	What is thread synchronization?		
	*	(v)	What is causes for deadlock?		
	- 1	(vi)	Define: Deadlock prevention.		
٠	(p)	Atte	empt the following ; (any two)	12	
ē		(i)	What is semaphore? Explain semaphore		
	, ×		with its types.	•.	
-		(ii)			
			detection method.	*	
		(iii)	- Plant one causes	1	
			for deadlock.		
		_			
4	(a)		as directed:	5	14.
		(i)	What is memory Management?		
			Define: Program Initiation.	¥	
			What is swapping?		
	X	- (iv)	What is ATU?		
	, -		Define: Page fault.		
	(b)	Atte	emit the following: (any two)	12	
		(i)	What is segmentation? Explain		
			segmentation in detail.	*	fi
		(ii)	Explain memory management scheme		
			in detail,	•	
		(iii)			
	ð.	,	Fragmentation in detail.	12.	
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2. BCA - 404: Computer Graphics (Elective - II)

1	(a)	Do as directed:	6
		(i) What is Ruster scan display?	
		(ii) What is resolution?	
		(iii) Define term pixel.	
		(iv) What is Random Scan display?	
		(v) Full form: PNG	
		(vi) Full form : TIFF	
	(p)	Attempt the following : (any three)	12
		(i) Explain application of computer graphics	12
	• •	(ii) Expiain ruster scan display in detail.	•
		(iii) Explain input devices in detail.	
		(iv) Explain hard copy devices.	
0	2-3		
2	(a)	Do as directed:	5
		(i) Define term boundary fill algorithm.	
٠		(ii) What is gray scale?	
		(iii) Define cell array.	
		(iv) What is bundled?	
	(h)	(v) Full form: WMF	
	(b)		12
		(i) Explain area-fill character attributes,	
	[* 2	(ii) Explain point and lines.	
		(iii) What is anti-aliasing? Explain all	
		anti-aliasing technique	
		(iv) Explain inside-outside test and give	
		example.	
3	(a)	Do as directed:	6
	1857	(i) What is shear?	· ·
		(ii) What is Reflection?	
		(iii) What is 2-dimensional transformation?	
		(iv) List out basic transformation in 2-D	
		geometric transformation.	
	•	(iv) Define term scaling.	
		•	
		(v) FullForm : CAD	

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•	(b ₇	(i) Explain the rotation transformation. (ii) Explain scaling transformation. (iii) Explain rotation transformation. (iv) Explain shear and reflection.	12
4	(a)	Do as directed:	5
	N.	(i) What is clipping?	
		(ii) What is curve clipping?	
	ě	(iii) Full form: WCS	•
• •		(iv) What is perspective projection?	
		(v) What is viewport?	
	(b)	Attempt the following: (any three)	12
		(i) Exlain Text clipping.	
		(ii) Explain polygon clipping.	
		(iii) Explain the viewing pipeline.	
		(iv) Explain two-dimensional viewing fun tie	on.

12