BCA, 2014 OPERATING SYSTEM PAPER CODE: BC 404 PAPER ID:[B0218]

Time Allowed: 03 Hrs M. Marks: 60

Note: Attempt all questions from Section-A and any four questions from Sections-B.

Sectio	n A		
1	What are various functions of operating system? Explain.	2	
2	What are various CPU scheduling criterion? Explain.	2	
3	What is thread? What are its types?	2	
4	What is combined approach to deadlock handling?	2	
5	What is critical section? Explain.	2	
6	Define encryption? Explain its role in operating system.	2	
7	What is PCB? What are its contents?	2	
8	What is physical and logical address space?	2	
9	What is mutual exclusion?	2	
10	What is binary semaphore? How it is different from counting semaphore?	2	
Section B			
1	Define operating system. Explain various operating systems with their		
	advantages and disadvantages.	10	
2	What is demand paging? Explain its advantages and disadvantages.	10	
3	What is file and directory? Explain various file allocation methods with their		
	relative merits and demerits.	10	
4	Write note on the following:-		
	(a) CPU schedulers.		
	(b) Process state diagram.	10	
5	What are various page replacement algorithms? Explain.	10	

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What is deadlock? What are necessary conditions for deadlock? Explain

how deadlock avoidance is different from deadlock prevention.

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