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Internal Assessment Test 1 – Mar. 2018

Sub:	Operating System					Sub Code:	15CS64	Branch:	CSE		
Date:	13-03-2018	Duration:	90 min's	Max Marks:	50	Sem / Sec:	6 - C		OBE		
<u>Answer any FIVE FULL Questions</u>									MARKS	CO	RBT
1 (a)	What is an Operating System? Explain with user and system view points.							[05]	CO1	L2	
(b)	Explain any 2 facilities provided for implementing the interacting process in programming language and operating system.							[05]	CO1	L2	
2 (a)	What are system calls? List the categories of system calls.							[05]	CO1	L1	
(b)	List 3 advantages of multiprocessor systems. Also, bring out the difference between graceful degradation and fault tolerance in this context.							[05]	CO1	L2	
3 (a)	List and explain the functions and services of an operating system.							[10]	CO2	L2	
4 (a)	Explain process states with state transition diagram. Also, explain the PCB with a neat diagram.							[10]	CO2	L2	
5 (a)	Define virtual machines. With a neat diagram explain the working of virtual machines and its benefits.							[10]	CO3	L2	

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6 (a) Discuss 3 common ways of establishing a relationship between the user thread and the kernel thread.	[05]	CO1	L3
(b) Explain the Operating System operations.	[05]	CO1	L2
7 (a) What is IPC? Explain direct and indirect communications with respect to message passing systems.	[05]	CO4	L2
(b) Explain dual mode operation in OS with a neat diagram.	[05]	CO1	L2
8. a) Briefly explain threading issues in multithreading.	[10]	CO2	L2

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