## The University of Burdwan B.Sc.(H) 3rd Semester Examination, 2020(CBCS)

B.Sc.(H) 3rd Semester Examination, 2020(CBCS)
Paper Name: Operating System Paper Code: CC-6
Subject: Computer Science

F.M:40 Time:2 Hours.

Answer <i>any eight</i> questions: 5×8		5×8=40
1.	Define process. Draw process state diagram.	2+3
2.	Explain the various types of system calls with examples.	5
3.	Write a short note on Process Control Block (PCB).	5
4.	What is context switching? Differentiate between process and thread.	2+3
5.	Explain page fault with an example.	5
6.	Discuss the concept of virtual memory.	5
7.	What are the differences between external and internal fragmentation? Define	
	throughput and response time.	3+2
8.	Explain preemptive priority scheduling algorithm with example.	5
9.	Differentiate between deadlock and starvation. Write down the necessary	conditions
	for occurrence of deadlock.	2+3
10. Consider the following page reference string:		
	4, 7, 6, 1, 7, 6, 1, 2, 7, 2.	
	The number of frames in the memory is 3. Find out the number of page faults using	
	FIFO Page Replacement Algorithm.	5