(An Autonomous Institution)

2020-2021 ODD TERM

CAE-1 EXAMINATION FOR SPLIT-II COURSES WINTER-2020 (ONLINE MODE)

Third Semester B.Tech(Artificial Intelligence)

Operating System

Time: 1 hr.] [Max. Marks : 15

- 1) [CO1/CO2/CO...] indicates the question related to specific course outcome.
- 2) All questions carry marks as indicated
- 3) Assume suitable data wherever necessary.
- 4) Due credit will be given to neatness and adequate dimensions.
- 5) Illustrate your answer wherever necessary with the help of neat sketches.
- 6) Use of non-programmable calculator is permitted.

C01	а	Describe the difference between symmetric and asymmetric multiprocessing				5
		systems? What are three advantages and one disadvantage of multiprocessor				
		systems?				
	b	What are the functions of an Operating System? Give example				5
C02	a	a Consider the following set of processes, with the length of CPU burst given milliseconds				
		Process	Burst Time	Priority		
		P1	2	2.		
		P2	1	1		
		P3	8	4		
		P4	4	2		
		P5	5	3		
		The processes are assume time 0. a) Draw four Gantt Chart the following scheduling larger priority implies a h	s that illustrate the ex algorithms: FCFS, S	ecution of these p JF, non preemptiv	rocesses using	
	b	larger priority implies a higher priority), and RR (quantum=2) b What is the average turnaround time of each process for each of the scheduling algorithms in Q2 a.				4
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	С	With reference to Q2 a Which of the algorithm results in the minimum				2
		average waiting time (over all processes)?				

******* Stay Home Stay Safe ********