TUTE OF TECK

END SEMESTER/RETEST, 2020

Semester: 5th

Subject code: CO-505

Subject: Operating System (OLD & NEW Syllabus)

Full Marks = (part A-25 + Part B-45) 70

Duration:(1 hour+ 2 hours) =3 hours

Instructions:

- 1. Questions on Part A are compulsory
- 2. Answer any five questions from Part B

PART-A MARK-25			
Question 1	Multiple choice question/ short question	1x10-10	
1a	The principle function of a is to execute machine instructions residing in main memory.		
1b	Which of the following is not advantage of Multiprogramming? i)Increased throughputii) Shorter response time iii)Decreased OS overheadiv)Abilities to assign priorities to job.		
1c	Operating System is a, which controls all the resources		
1d	Expand Spooling:		
1e	Expand BIOS:		
1f	In the multiprogramming environment the main memory consists ofnumber of processes. i) >100 ii) only one ii) >50 iv) more than one		
1g	Expand PMT:		
1h	A thread is ai)Task ii) Process iii)Program iv)Light weight process		
1i	Which of the following resources can cause deadlocks i)Read only files ii)Shared programs iii)Printers iv) all of the above		
1j	A set of résources allocations such that the system can allocate resources to each process in some order, and still avoid a deadlock is called i)Unsafe state ii) Safe state	TRAL LIBRA	

Fill in the blanks. The performance of the CPU is measured by	1x5=5
The performance of the CPU is measured by	
The performance of the CPU is measured by	
Multiprogramming is also called	
When only one process may use a resource at a time, it is called	
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	1.5.5
Choose the correct answer	1x5=5
Which of the schoduling policy is most suitable for a time shored	
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	1x5=5
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What is internal fragmentation?	
	
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Consider the three processes P1 P2 P2 for Round Robin	1.5x 3=4.5
	1.JA 3-4.3
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1	Consider the three processes P ₁ , P ₂ ,P ₃ for Round Robin Scheduling which require the following CPU time Process CPU time P ₁ 20 P ₂ 5 P ₃ 5 (i) Draw the Gantt chart.

	Scheduling which require the following CPU time	
	Process CPU time Priority	
	P ₁ 10 2	
	P ₂ 5 4	
	P ₃ 7 1	
	P ₄ 6 3	
	Assume that all the processes have arrived at time 0.	
	(i) Draw the Gantt chart.	
	(ii) Find the average waiting time.	
	(iii) Find the average turn around time.	
Question no. 6		
Q6a	What are the different types of schedulers?	3
Q6b	Briefly explain the purposes of different types of schedulers	6
Question no. 7		
Q7a	What are the different states of a process?	3
Q7b	Explain PCB. & its contents.	3
Q7c	What is the Paging memory management system? Explain.	3
Question no. 8		
Q8a	Define the term swapping.	2
Q8b	Define deadlock and explain a deadlock avoidance mechanism.	2+5=7
Question no. 9	Differentiate between	4.5x2=9
Q9a	Internal fragmentation and External Fragmentation.	
Q9b	Contiguous allocation & Linked allocation	
Question no. 10		
Q10a	Draw the figure of OS structure.	3
Q10b	Write the differences between paging and segmentation.	6



