

K16U 0698

Reg. No :

3. What are time-sharing systems?

IV Semester B.Sc. Degree (CBCSS - 2014 Admn.-Regular)
Examination, May 2016
GENERAL COURSE IN COMPUTER SCIENCE
4A14 CSC: Operating System

-			Will odd i operating System
	Time: 3 Hours		3 Hours Max. Marks : 40
			SECTION - A
	1.	ne word answer. $(8 \times 0.5 = 4)$	
=5)		a)	Two or more programs in memory at the same time, sharing the processor is referred to as
		b)	A program in execution is referred to as
		c)	The number of processes completed per time unit is called
0		d)	scheduler controls the degree of multiprogramming.
-	,	e)	A system is in state if it can allocate resources to each process and avoid deadlock.
		f)	The address generated by the CPU is called
		g)	The time taken to move the disk arm to the desired cylinder is called
		h)	is a memory management scheme that allows the physical address space of a process to be noncontiguous.
1			SECTION-B
	Wri	ite :	short notes on any seven of the following questions. $(7x2 = 14)$
	2.	Wr	nat is an Operating System?



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- The state of the s
- 4. List any two activities of operating system in connection with memory management.
- 5. What is a dispatcher?
- 6. What is a resource allocation graph?
- 7. Write notes on segmentation.
- 8. What is Belady's anomaly?
- 9. What is thrashing?
- 10. Write notes on scheduler.
- 11. Define deadlock.

## SECTION-C

Answer any four of the following questions.

 $(4 \times 3 = 12)$ 

- 12. What are the necessary conditions for deadlock?
- 13. Write notes on paging.
- 14. Write notes on PCB.
- 15. Explain fragmentation.
- 16. Write notes on TLB.
- 17. Explain optimal page replacement algorithm with example.
- 18. Explain multiprocessor systems.

A

2.

SECTION - D

1. Write an essay on any two of the following questions.

 $(2 \times 5 = 10)$ 

- 19. Explain any three CPU scheduling algorithms with examples.
- 20. Discuss any four disk scheduling algorithms.
- 21. Explain deadlock avoidance algorithms.