

Seat no

No. of Printed Pages: 02

SARDAR PATEL UNIVERSITY

B.Sc. CA & IT (SEMESTER-III) EXAMINATION 2022 US03CIIT55: Operating System

Date: 1	14/11/2022 (Monday) Mark	s: 70
	02:00 p.m. to 05:00 p.m.	[10]
Q. 1	Multiple Choice Questions	-
1	Compiler is an example of which components of Operating system? (a) Hardware (b) System Program (c) Application Program (d) none	
	11 1 Dunners state	
2	(a) Dinning (d) 101111111111	
_,	(a) Ready	
3	Which is the solution for priority scheduling argoritant. (a) Starvation (b) Aging (c) Indefinite Blocking (d) Infinite Blocking	
4	(a) Starvation (b) 115 mg	
4	(b) Rrames (c) rages (d) Tolle	
<i>E</i>	is not a valid Memory allocation algorithm.	
- 5	(c) Best-fit (d) Suit-fit (a) First-fit (b) Worse-fit (c) Best-fit (d) Suit-fit (d) First-fit (e) House of the used for longer	
. 6	(a) First-fit (b) Worse-fit (c) Best-fit (d) But fit (d) But fit (e) Best-fit (e) Best-fit (d) But fit (e) Best-fit (e) But fit (e) But fit (e) Best-fit (e) Best-fit (e) But fit (e) But	
. 0	period of time.	
	(a) FIFO (b) LRU (c) Optimal (d) Note of Asset	
7	buffer has fixed buffer size.	
•	(a) Pounded (b) Unbounded (c) Shared (d) None	
8		
	(Nimportant Section (h) Critical Section (c) Mutual Section	
9	command is use to merge matchine mess.	
	A TOTAL TOTA	
10	option of vi editor is use to save your work. (b) my (c) rm (d) :w	
	(a) cp (b) mv (c) rm (d) . w	
	A CALL TEND	[20]
Q. 2	Short Question (Any TEN)	
1	List advantages of multi-user OS.	•
2	Draw the diagram of PCB. What is Context Switching? I thus for following reference string: (Number of	
3	The raina HIRI SIGONIAN IOI ONOWING IOIOTALE	•
4	$E_{\text{man}} = A$ Reference string = $(1, 2, 4, 1, 2, 0, 3, 0, 3, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,$	
	What is Compaction? For what purpose it will use.	
5	- t t v 1 Programontation in ShOff	
6		
7	E-relain recource utilization in uctains.	
8 9	Charma (Marring I NATOTING AVNICID .	
10	4 4 4	
11	Fynlain cut command in short	
12	A A LANGE AND	-
Q	.3 Explain Real Time Operating System.	[05]
	1 ist out various types of Ob. Explain four 1200 P	[05]
	Bl Explain process state and PCB in brief. OR	
	O47	[05]
	Which are the functions performed by Operating System? Describe FCFS scheduling with advantages and disadvantages.	[05]
	B] Describe FCFS scheduling with advantages and analysis	0.)
	(\underline{A})	/

Q. 4 [A] [B]	Explain Swapping of two processes with	[05]
[A] [B]	Explain Memory allocation tools.	[05]
[D]	Explain Paging techniques with advantages and disadvantages	[05]
Q. 5		[05]
[A]		
[B]	What is Cooperative Process? Explain Producer-Consumer Problem What are the necessary conditions for Deadlock prevention?	[05]
[A]	List out differences between OR	[05]
[B]	List out differences between cooperative and independent process. Also explain advantages of cooperative process. What is LINUX? Explain basic features of LINUX Operating System.	[05]
0.6	Total Catalog of LINUX Operating System.	[05]
Q. 6	Florid 1 to 1	[voj
[A]	Explain if and case statement in LINUX.	
[B]	Explain following commands with example: b) pwd c) mkdir	[05]
[A]	Explain grep command with at least for	[05]
[B]	Explain for loop in Linux.	[05] [05]

