Enrollment No:	Exam Seat No:
Entonment 100	E244111 Seat 1101

C. U. SHAH UNIVERSITY

Summer Examination-2022

Subject Name: Operating System

Subject Code: 4TE04OPS1 Branch: B.Tech (CE)

Semester: 4 Date: 07/05/2022 Time: 11:00 To 02:00 Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed

)-1	Attempt the following questions:	(14)
a)	The primary goal of operating system is	1
	[A] Make computer system convenient [B] Make use of hardware	
	[C] Make use of software [D] None of the above	
b)	Process creation in UNIX is done by	1
	[A] New () [B] Fork() [C] Make() [D] Parent()	
c)	What is the full form of RAID?	1
	[A] Repeated Array of Independent Disks	
	[B] Redundant Array of Individual Disks	
	[C] Redundant Array of Independent Disks	
	[D] Repeated Array of Individual Disks	
d)	1 0 1	1
	[A] open files [B] pending alarms, signals, and signal handlers	
	[C] address space and global variables [D] all of the mentioned	
e)	From the following, which is not common file permission?	1
	[A] Stop [B] Write [C] Execute [D] Read	
f)	What are the common security threats?	1
,	[A] File Shredding [B] File sharing and permission	
	[C] File corrupting [D] File integrity	1
g) b)	If a process fails, most operating system write the error information to a	1
	[A] new file [B] another running process	
	[C] log file [D] None of the above Which of the following is the least secure method of authorization?	1
h)	Which of the following is the least secure method of authentication? [A] Key card [B] fingerprint [C] retina pattern [D] Password	1
i)	To access the services of operating system, the interface is provided by the	1
1)	[A] System calls [B] API [C] Library [D] Assembly instructions	1
	[A] System cans [b] AFI [C] Library [D] Assembly instructions	
j)	Which of the following is not an operating system?	1
J)	[A] Windows [B] Oracle [C] Linux [D] Android	1
k)	What is the full form of DOS?	1
N,	THE IS THE TWILL TOTAL OF DOS.	



		[A] Distribution of Service [B] Distribution of Server [C] Denial of Service [D] Denial of Server		
	1)	For which of the below allocation and use is managed by kernel?		
	m)	[A] Caches [B] RAM [C] Both A & B [D] Disks Virtual memory in memory hierarchy consists of [A] RAM and Disk [B] Caches and Disk	1	
	n)	[C] Caches and RAM [D] All of the above The bounded buffer problem is also known as [A] Readers – Writers Problem [B] Producer – Consumer Problem [C] Dining – Reader Problem [D] Dining – Philosophers Problem	1	
Atter	npt a	any four questions from Q-2 to Q-8		
Q-2	A B	Attempt all questions What is process? Explain various process states. What is PCB? Explain its components in details.	(14) 7 7	
Q-3	A B	Attempt all questions Explain various types of directory structures. Explain various methods of file allocation.		
Q-4	A B	Attempt all questions Define OS. Explain various types of OS. Explain about various views of OS.	(14) 7 7	
Q-5	A B	Attempt all questions What is threat? Explain different security problems. Explain OS structure.	(14) 7 7	
Q-6	A B	Attempt all questions Write a shell script to make calculator. Write a shell script to check entered number is even or odd.	(14) 7 7	
Q-7	A B	Attempt all questions What is fragmentation? Explain different types of fragmentation in detail. What is file? Which are the different file access methods?	(14) 7 7	
Q-8	A B	Attempt all questions What is thread? Explain various threading issues. What is deadlock? Explain four necessary conditions for deadlock. Also explain different ways to handle deadlock.	(14) 7 7	

