## Operaring Syerens Concept

## Introduction to Operating Systems.

At How from the user perspective and system perspective the definition of an operating system differs? Is there any similar point that there there there was agree with?

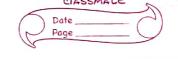
the user's perspective defines an operating system to manage the ease of use of computer - eystem resources, such that no attention to be given on working of hardware and software resources. In comparison to this, a system perspective is in knowing the operating as a resource allocator. A computer system build build with resources like CAV time, memory space, file storage, I/O devices and so on which are controlled by the operating system to perform every work of users.

operating system with quite varied context from the two views.

we can say the two definitions might indirectly combine to solving the problems of creating a usable computing system.

architecture of operating system.

	Applications -> [ ] ( ) [ ] ( ) [ ]
	Object Security process Virtual nemory manager monitore manager manager To
	micro-kernel
المدعيد	hardware abstruction layer
1	hardware
a	The operating eyeten provides the interface for user to access the hardware of build or use software on any applications.  3. "It is better to have distinct largers in an operage system to enhance security" - Justify.
	cheraping provides a distinct advantage in an operating system. All the largers & can be defined separately and interacting with each other as required. Also, it is easier to create, maintain and update the eystem if it is done in the form of largers. Change in one larger specification does not effect the rest of the largers.
94.	List-down the required frauto features that should be incorporated according to you while designing operating system for the following type of devices.
<i>a</i> y	Deskrop computers b) Handheld devices c) Embedded
a)	relainfrance computers. e) Hard parties
4)	Soft Realtime System 9) Multimedia System.
in the second	



	14.6
Ans	should support complex games, business applications
	should support as input games, is as in as appears
6)	To disign the operating system for handheld
	de disignet the operating system for handheld devices, it need must provide an environment in
	which a user can easily interface with the computer
	to execute programs.
	The specating system must supervise.
9	the application software and provide mechanism
(0,9	to les the processor run a process as per
	scheduling, for an embedded system.
_d)	For a mainframe system, the operating eyetems are designed preimarily to optimize the utilization of hardware.
	A CONTRACTOR OF A CONTRACTOR O
<u></u>	Ohr response time or the time to finish up a process in all realtime eystems is very less.
	Pu this system the operating system must quarantee that creitical tasks complete on time.
<i>f</i> )	softe realtime eysteurs are less restrictive
3,	A viricel real-time pask gets privaity over
9 6	other tasks and rutern the priority over
	of ther pashs and repairs the priority until
	it complete.
0	The sherebine culture
9)	For a multimedia system, its sperating system,
La	jators like timeliness, must manage the dish
	dara to efficiently use limited durice
Jan de 12 3	capacity, the operating system must ensure
	that each media gets a a sufficient tresource
	share as so well as consider tright relations
	between different date stream arriving
	Scannod with CamScannon

	from different fils.
Land 10 3	
QS	). How apprepric and asymmetric multiples use
<u> </u>	). How ammeric and asymmetric multi procusor system differs?
An	I was a consing eye tem the
\	1. A. A. O. M. T. D. C. COMM.
	In the California of the Color
	ey (tem and mimory, compact)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	of programs by much put process
,	asymmetric gystem is done by
	master-slav relationship. As well we county
	sey in segmetric system the processors take
	processes from the ready queen, where ead
	In asymmetric eyeten the master processor
	assigns processes to the slave processors.
40	Lasty, symmetric septem processor is comparatuel
SAL	eastly to asymmetric system.
	The state of the s
9.6	· What is the difference of multiprocessor
	eystern and dierriberted system?
Aust	The multiprocessor septem utilizer multiple CDU, exherens a single CDU is meded for distributed system.
	CDUs whereas a pinch con whilingy multiple
<u>l'alai</u>	distributed system
	Multiprocessor system permits parallel processing, whereas controlled
	processing, whereas confesse as her
And the	processing, whereas contest surthing takes place in a distributed system Multiprocessor takes
ارار بر ۱۰ د ار	Multiprocessor tockes less time to process the
2002	John and a mistributed system to process the
	jobs, and a distributed system to process the more time. A multiprocessor system to process the usually more expensive processor system is
4.34.600	usually more expensive Aleen distribution
100/01/01 E.J.	State of Chrobusty
e de la	Take the state of

Compare b/n concepts of of multipres gramming, multitasking and Multiprescessing and Time-charing 97 Compare b/n And En the time -sharing operating cystem each tasks get an equal priority. Here the EPU idle time En multiprogramming we find a computer is running more than one program at a time. In multiprocessing a computer uses, more than on cpu aratime. In multitasking one cpu is shared for different tasks to perform.