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	D'ighted eysten -> works with discrete values dissente
	orapo 27 year -> mosks right my monday des Chechers
	and 3
	(hapter-7 (lor 20)
	Computer Technology and
	multimedia operating System
	, , , , ,
1	Explain the need of Communication
	Architecture.
Ans:	Local multimedia systemslive multimedia
	espetations) has a network interface
	Mongh wich they can ismunicate
	with each other.
1	The transmission of audio and video cannot
	be carried out with only either analog
,	system or only digital system.
->	soth of them are required too a womenication
\rightarrow	Until nows continous and d'usete were used
	to fitterent environments, independently of
	each o thex-
	CHE
->	Summunication a schifecture focuses on tating
	integration and interaction between malaced
	digtal environments. This integration appround
	is called the hybrid approach.

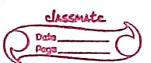
Prepared By Abhiyan Dev Rimal https://github.com/abhirimal/be-software-notes



1		4
*		
+	112	Explain the hybrid approach.
1		Atomorphic book a book of the well as
1		Explain the organice system for communication
		aschitecture:
	Wy .	a so extend as a month of any Congress and and the
	Ans'	Analog system worts with continuous ralyes.
		Professional radio and television studios transmit
	71,17	audio and video stream in the form of analog
		signals. La Hadissania all maritimes - III
	\rightarrow	Digital system cooks with discrete values.
		In digital system, audio-video devices can be
		connected directly to the ungated constitution)
		and digitized audio-video data are transmitted
		over store data netosok.
		Laurence Commence Commence of the property of
4	<u> </u>	By ving existing technologies, integration and
4		interaction between analog and digital environments
4		can be implemented. This integration approach is
4		called the nybrid approach.
_	\rightarrow	A hybrid eystem is a combination of digital
4	162.	and analog system and it combines the best
		features of both types of systems.
-	<u>-></u>	3x uses speed of analog system, and momony &
_		accuracy of bigital system.
		It can beacers pott rougherrans of girlsete gata.
	>	It can be used in seal time system
_		



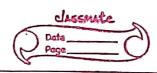
4	with the half of phypig afficient ins can conjust
	and by ingut output audio-video wom govents
	in the digital environment.
->	Example: The wavelion between the sources
	(consequirespore) and destinations (video rewider)
	can be controlled digitally. Evsed in video chat)
ph	and experience in the star was a fine to a series of the series
	La 20 m 2 all at morning and a few and
111 3)	Multimedia Workstation
	Explain varous multimedia works to tion.
	Kanada and the second of the second of the
Pros'	workstation is a high performance computer system
300	that is bailedly designed for a single user.
	and has advanced graphics capabilities large
,	zprade cakarità my a borosepri senjeaj bussajil
	Capit - I a feel a cincipal and in
	and the first to a draw or and the second
->	to not priding a si nothet strow pilonithm A
	hardware, cot twose and fromware for a wick
	exchange of data and simultaneous manialities
	intermedia sign enoughous are 4 2011/6 to
<u>-></u>	the It can be used to exate somme
	and Finatia hiles and export Hemin various
L.	Eskuats.
23T	are a first of the second of t
	and the second of the second o
11	1



7	To comparents of Multimodia workstation are:- !
	the second of th
(i)	System Processor -> for processing dianete media
	inbringtion.
	and the second s
(")	leal-time Processor -> for processing of data in real time.
	The second secon
Lii'	win nomony and se various nomony
	Storge amount of both types of nomen are
	redning for speads.
É.	
lui	Crappice Card -> for readering deabyics
(c	CO1000 govers 18th
	were the man to make your party and a few to
	System Bus Real-time
	80167102 80167102
	Bus
	V Co
	310 Processor memory Craphics
	and the second s
	Eig-Multimedia Wortstation
	and the second s



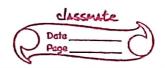
	Program O
110)	Explain my Brooking aperating System. Explain the characteristics of my Hinedia operating System.
	Explain the characteristics of multimedia operating
,	System
	and the second s
PW.	On appealing system acts as an interface between
	I read of a computer and me computer hardware.
	The baskors of an observend zdzyew is to brange
	an avoised west in repiet was car exercise busdamen
	is a convenient & efficient manes.
<u> </u>	Os enures effective utilization of competer hardwork.
	Importent fuction of OS are
g_20,	Menon was durit in besome wasdurent
	1) Processor Management 1) I/O Management
4	in) Ele Mara genert is) Sociation
<i>></i>	myltimedia is the integration of modime two
	or more medias such as text, audio, video, etc.
<u> </u>	
	the unipully a file are called unipully a
	Obserted Edisku.
<u>→</u>	myltinedia operating system are designed to hardle
	conseilus di data men a text piel prodecue
-	10040 beach 221, d' angio 1 1 1060 '6 fc.
<u> </u>	In multimedia, application, a lot of data
	wouldayou is sednised ong this
	a 101 of out Transfer which woungs
	word respirates.



->	There resources are under the control of of.
	Myltimedia application demand that hymanis
	perceive media like (qudio, vide o) in natural
	and error free way.
	A multimedia a possiting system should be able to
	take case of many resources simultaneously
	and effectively.
	Company of the compan
	Required Characteristics in multimedia operating
15. 30	Systema de la companya de la company
	multimedia tiles are large. So os has do
	berige bedex ejo stongjist uegranien.
	A multimedia Operating System should be
	able to take case of many resources simultageo-
	uly and effectively.
3)	sterpetari et elde set bluote to integrate
	discorte and continuous media data.
W	mos should Ethane an effective database
	maragement System.
5)	Operating System should have appropriate
	scheduling algorithms.
6)	The continuous media data should be processed
	in Real time. Since, multimedia System are
18:51 18:51 18:51 18:51	quite sensitive to time delays.
	and the same of th
	were on it is a set with the south is a first of a read part of
	Truste de mant de appendit de
4	
Photo in the second	



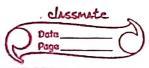
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	N.V.Zmg
11115	
<u> </u>	what is myltimedia Real time operations
	System: Explain the characteristics of
	Real time operating System.
	199 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0	
1300	4 earl june abouting ordagen
Cos'.	A real time system is a system which
	2011
	delivere the results of the prosessing in
	dure jue clar.
_	
	It is a data processing system in which
	the time interval required to process and
	sos boug to indate is curalli
_	
	The restance fine is read 1621.
->	In real time system , each job carries a
ا بوسو لمرايز -	contain deadline within which the jobis.
	51120010 Ja
	supposed to be completed, otherwise, huge
	loss will be these, or even it the result is
	graducedit will be completely weless.
\rightarrow	Eq. Scientific Experimente
	Eg: Scientitic Experiments, weapon System,
	Bix Traffic Control System, medical Image
	processing we real time operating system.
.	Janew.
	· leader with the second
->	bluode stab si bon wourds as sibentlum of
	De 02016169 11 2001 7:2000
	pe bester in real time as waltinesia
200	3 driew is don't south to yo time gelant.
\rightarrow	multimplia application requires real time
	e is been to delicite the could note
	system to deliver the results of the processing
	in a given time-span.
11	
- 11	



->	To tultill the timing requirements the operating System must be use the real time scheduling
	System must & use the real time scheduling
	algorithms.
	the contract of a contract of the contract of
	Characteristics of Real time Operating system
	correctnoss of compatation
→	The main characteristics of real time system
	is the cookschool of the computation.
	to see the state and account to allow a
2)	East response time
<u>→</u>	The time taken by a system to respond to an
	input and display result is response time.
	Response time should be very less.
Dia .	the state of the s
3)	Migh degree of schedulability
->	Schoolighility retens to the dagger of resource
	utilization man a man di anni la
	The state of the college of the coll
(h	Stability under System Overload
-7	Under the system onesload, the prosecting of
	critical tasks must be enragel.
	some of the solution was and
<u> </u>	Early tolerance
->	nechanism to hardle system failures.
()	Concurrency
<u>→</u>	Responds to serveral number of process at a
	time.
ALL THE STATE OF T	



	F-200
6)	Define deadline in terms of multimedia
	Operating system.
-	and the second of the second o
Go.	Deadlines represents the time at which
· V.	specific tasks has to be completed.
	There are hos types of deadlines. They are:
	Soft deading
<u> </u>	It is used when a deadline cannot be
	exactly determined and failing to meet
	it doeinet brognie au mandibe result.
2)	March 10:11 miles of the second control of t
	They are strict and never to be violated.
	If they are violated, leads to system failure:
	dilitate pains to an interest
	entered to any of sold set to also delicated and a
(F)	what is resource in terms of multimedian
Ans'.	A resource is a system entity required by
	talls for prolecting and manipulating las
<i>-</i> >≠.	Resources have following characteristics
(A resource can be active or parise.
	a borine resonne
	and the second s
2)	A remarie can be o'ther exclusively used by one
-	process at a time or shared between various
1	buckner.



	8
3)	Each resource has a capacity denoting the
	udiana apilità po bezque a fast mica
	the resource. Ed: Womand Cise (B) color, phiete.
4	a side from the state of the
19)	what are the phases of the resource reservation
	and navagement process; Explain d'il levent ways
	of reserving the resonances.
Ans:	Myltimedia 05 is a real time system which
	pare to warde the resonant amond sayion
	bossi.
	Proses for Resource Peservation and Management
	Process.
13 -	The second secon
	Schodylability Test
	Resource manager attached with given all
	parameters (Moseighfut reliability) to determina
	if there is enough remaining resources againty
	available to randle this additional request.
	· ·
2)	Quality of Service Calculation
->	After Schedulability test, the resource manager
	calculates the best possible performance the
	resonate con diarantée por nem réditet.
	<u> </u>

