

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Program: BE Computer Engineering

Curriculum Scheme: Rev2016

Examination: Third Year Semester V

Course Code: CSDL05012 and Course Name: Advanced Operating System

Time: 1 hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1. consists of a static part, which is fixed in size and stays with a process throughout its lifetime and the dynamic part which varies in size through the life of the process.
Option A:	User-level context
Option B:	Register context
Option C:	System-level context
Option D:	Memory level context
Q2.	The contains the basic elements of a user's program and can be generated directly from a compiled object file.
Option A:	User-level context
Option B:	Register context
Option C:	System-level context
Option D:	Memory level context
Q3. is the process state recognized by the UNIX operating system in which the process is returning from kernel to user mode, but the kernel preempts it and does a process switch to schedule another process.
Option A:	Sleeping, swapped
Option B:	Preempted
Option C:	Zombie
Option D:	Ready to run, Swapped
Q4.	If one site fails in distributed system then _____
Option A:	the remaining sites can continue operating
Option B:	all the sites will stop working
Option C:	directly connected sites will stop working
Option D:	none of the mentioned
Q5.	Identify the distributed computing model from the following statement. In this model, the user's processes need not be migrated to the server machines for getting the work done by those machines.
Option A:	Minicomputer model
Option B:	Workstation model
Option C:	Workstation-Server model
Option D:	Processor pool model
Q6.	Which of the following is not a type of configuration that is based on physical interconnections between the processors?
Option A:	Star configuration

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Option B:	Loop configuration
Option C:	Regular topologies
Option D:	Incomplete interconnection
Q7.	The interconnection topologies are implemented using _____ as a node.
Option A:	Control unit
Option B:	Microprocessor
Option C:	Processing unit
Option D:	Microprocessor or processing unit
Q8.	The main objective in building the multi-microprocessor is
Option A:	Greater throughput
Option B:	Enhanced fault tolerance
Option C:	Greater throughput and enhanced fault tolerance
Option D:	None of the mentioned
Q9.	The disadvantage of the loosely coupled system is
Option A:	Complex due to additional hardware
Option B:	Less portable
Option C:	More expensive
Option D:	All of the mentioned
Q10.	In real time operating system _____
Option A:	all processes have the same priority
Option B:	A task must be serviced by its deadline period
Option C:	Process scheduling can be done only once
Option D:	Kernel is not required
Q11.	What is the disadvantage of real addressing mode?
Option A:	There is a lot of cost involved
Option B:	Time consumption overhead
Option C:	Absence of memory protection between processes
Option D:	Restricted access to memory locations by processes
Q12.	Which of the following is essential concept related to Cloud OS?
Option A:	Reliability
Option B:	Productivity
Option C:	Abstraction
Option D:	All of the mentioned
Q13.	For real time operating systems, interrupt latency should be _____
Option A:	Minimal
Option B:	Maximum
Option C:	Zero
Option D:	Dependent on the scheduling
Q14.	Which of the following is not an OS for mobile?
Option A:	Palm

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Option B:	Windows
Option C:	Mango
Option D:	Android
Q15.	Mobile Phone OS contains open APIs that may be _____ attack
Option A:	Useful for
Option B:	Vulnerable to
Option C:	Easy to
Option D:	Meant for
Q16.	To indicate the completion of task allocated in a closely (tightly) coupled system, the microprocessor uses
Option A:	Status bit in memory
Option B:	Interrupts the host
Option C:	Status bit in memory or interrupts the host
Option D:	Clock pulse
Q17.	Which technique is based on compile-time program transformation for accessing remote data in a distributed-memory parallel system?
Option A:	cache coherence scheme
Option B:	computation migration
Option C:	remote procedure call
Option D:	message passing
Q18.	What is the main purpose of the memory management unit?
Option A:	address translation
Option B:	large storage
Option C:	reduce the size
Option D:	provides address space
Q19.	The PID of the kernel process is
Option A:	undefined
Option B:	0
Option C:	1
Option D:	3
Q20.	Each process is identified by a unique integer called _____
Option A:	PID
Option B:	PPID
Option C:	TID
Option D:	PTID
Q21.	When we can access a file with multiple filenames, it is said that the file has multiple
Option A:	names
Option B:	inode number
Option C:	links
Option D:	uid

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Q22.	What is a directory file?
Option A:	a directory containing data
Option B:	a directory containing details of the files and subdirectories it contains
Option C:	a directory contains files
Option D:	a directory containing data and files
Q23.	How does a buffer memory allocate its memory through the linker?
Option A:	statically
Option B:	dynamically
Option C:	linearly
Option D:	non-linearly
Q24.	What is a shell script?
Option A:	group of commands
Option B:	a file containing special symbols
Option C:	a file containing a series of commands
Option D:	group of functions
Q25.	Which one of the following is not a real time operating system?
Option A:	VxWorks
Option B:	Windows CE
Option C:	RTLinux
Option D:	Palm OS

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	C
Q2.	A
Q3.	B
Q4.	A
Q5.	C
Q6.	D
Q7.	D
Q8.	C
Q9.	D
Q10.	B
Q11.	C
Q12.	C
Q13.	A
Q14.	C
Q15.	B
Q16.	C
Q17.	B
Q18.	A
Q19.	B
Q20.	A
Q21.	C
Q22.	B
Q23.	A
Q24.	C
Q25.	D