

LIBRARY
Brainware University
Barasat, Kolkata -700125

N21

## **BRAINWARE UNIVERSITY**

## Term End Examination 2021 - 22 Programme – Bachelor of Technology in Computer Science & Engineering Course Name – Distributed Systems Course Code - PEC-601B (Semester VI)

Гіme allotted : 1 Hrs.25 Min.		Full Marks : 70
. [The figure	in the margin indicates full marks.]	run Marks . 70
and the state of t	Group-A	
	ltiple Choice Type Question)	1 x 70=70
Choose the correct alternative from the fol	lowing:	
(1) Which amongst the following is not as	administration of Direction of the state of	
(1) Which amongst the following is not an		
a) Resource sharing	b) Incremental growth	
c) Reliability	d) Process to Process Commuication	
(2) Resources and clients transparency that	allows movement within a system is called	The American Control
a) Mobility transparency	b) Concurrency transparency	
c) Replication transparency	d) Performance transparency	
(3) The transparency that enables multiple		
a) Performance transparency	b) Scaling transparency	- The selective of
c) Concurrency transparency	d) Replication transparency	· 100.00 0
(4) Whic is not a characteristics of a distrib		
a) Heterogeneity	b) Openeness	
c) Scalability	d) Global clock	
(5) What is not a major reason for building	•	
a) Resource sharing	b) Computation speedup	
c) Reliability	d) Simplicity	
(6) Which is not a design issue in distribute		
a) Scalability	b) Fault-tolerance	
c) Flexibility	d) Non-scalability	
(7) Common problem found in distributed s	• • • • • • • • • • • • • • • • • • • •	
a) Process Synchronization	b) Communication synchronization	
c) Deadlock problem	d) Power failure	
(8) If timestamps of two events are same, th		
a) Concurrent	b) Non-concurrent	
c) Monotonic	d) Non-monotonic	

Page 1 of 6

(9) If a process is executing in its critical section,

<ul> <li>a) Any other process can also execute in its critical s ection</li> </ul>	b) No other process can execute in its critical section
<ul> <li>c) One more process can execute in its critical section</li> </ul>	d) All processes execute
(10) In the token passing approach of distributed systems	s, processes are organized in a ring structure
a) Logically	b) Physically
c) Both logically and physically	d) Independently
(11) Logical clock measures	, samp maskey
a) Day time	b) Night time
c) Relationship among events	4) Only
(12) In which algorithm. One process is elected as the ac-	ordinator
- Intituted illufflat evaluation algorithm	b) Centralized mutual exclusion algorithm
o) Token Ting algorithm	
(13) Which principle states that programs, users and ever to perform their task?	n the systems be given just enough privileges
a) Principle of operating system	
c) Timelple of process scheduling	b) Principle of least privilege
(14) Choose one of the best options from the following	d) Principle of non process scheduling
(14) Choose one of the best options from the following.	Dump of memory of the computer system is e
a) Programmer	b) Debugger
c) Designer	d) Engineer
(15) RPC (remote procedure call) is initiated by the	-) Ziigineel
a) Server c) Hub	b) Switch
C) Hub	d) Gateway
(16) Remote Procedure Calls are used:	
a) Server c) Hub a) For communication between two processes remot ely different from each other on the same system c) For communication between two communication between two processes remot ely different from each other on the same system	b) For communication between two processes or same system
arate systems	d) For communication between three processes
(17) In Message-Passing Systems ,A message-passing fa	icility provides at least two operations:
a) send(message) and delete(message)	b) delete(message) and receive (message)
c) send(message) and receive(message)	d) write(message) and delete(message)
(18) Machine that places the request to access the data is	generally called as
a) Server Machine	b) Client Machine
c) Request Machine	d) Response machine
(19) An architecture where clients first communicate the he users, is known as	server for data then format and display it to t
a) Client/Server architecture	b) Three-tier architecture
c) Two-tier architecture	
(20) In remote procedure call, the client program must b	d) Peer-to-Peer architecture e bound with a small library procedure called
	procedure canea
a) Server stub	b) Marshalling
c) Local Procedure Call	d) Client hub
(21) RPC connectors and message queues are mechanism	
a) Message retrieving	b) Message passing
c) Message delivering	d) Message Synchronizing
(22) Microkernel architecture facilates	d) Message Synchronizing
a) Flexibility	
* 12	b) Extensibility 2 of 6

c) Reliability	d) Portability	prory ersity
(23) Modular design helps to enhance		Brainware University  Brainware University  Road, Barkinshnacu Road, B
a) Functionality	b) Reliability	Bishire water Bergan
c) Portability	d) Rigidity	398, Kolketa, West
(24) In which algorithm, One process is elected as the coor		
<ul> <li>a) Distributed mutual exclusion algorithm</li> </ul>	<ul> <li>b) Centralized mutual ex</li> </ul>	clusion algorithm
c) Token ring algorithm	d) Lamport algorithm	
(25) Which mutual exclusion algorithm is useful when the	membership of the group i	is unknown?
a) Centralized	b) Lamport's	
c) Token ring	d) Decentralized Algorith	hm
(26) NTP is layer protocol.		
a) Application	b) session	
c) transport	d) physical	
(27) Suzuki-Kasami's Broadcast Algorithm is an		
a) Non- token based algorithm	b) Token based algorithn	n
c) Centralized Based algorithm	d) physical clock synchro	onization algorithm
(28) Which event is concurrent with the vector clock (2, 8,	, 4)?	
a) (3,9,5)	b) (3,8,4)	
c) (1,7,3)	d) (4,8,2)	
(29) This is not feature of cooperative algorithm		
a) Complex	b) Larger overhead	
c) Worst stability	d) Better stability	
(30) Distributed system consists of set of resources intecre	connected	
a) Printer	b) Processor	
c) CD	d) Processes	
(31) How is access to resources of various machines is do	ne?	
a) Remote logging using ssh or telnet	b) Zone are configured for	or automatic access
c) FTP is not used	d) FTP is used	
(32) What are the characteristics of data migration?	. Stem if the first	
a) Transfer data by entire file or immediate portion r equired	b) Transfer the computat	tion rather than the data
c) Execute an entire process or parts of it at different sites	d) Execute an entire prod e	cess or parts of it at same sit
(33) What are the characteristics of computation migration	1?	
<ul> <li>a) Transfer data by entire file or immediate portion r equired</li> </ul>	b) Transfer the computation	tion rather than the data
<ul> <li>c) Execute an entire process or parts of it at different sites</li> </ul>	d) Execute an entire pro-	cess or parts of it at same sit
(34) What are the characteristics of process migrration		
a) Transfer data by entire file or immediate portion r equired	b) Transfer the computa	tion rather than the data
<ul> <li>c) Execute an entire process or parts of it at different sites</li> </ul>	d) Execute an entire pro	cess or parts of it at same sit
(35) In which of the following consistency model all write	es become perceptible to al	1 processes
a) Strict	b) Weak	
c) Casual	d) Sequential	
(36) The placement of replica servers is		
a) Optimization problem	b) More of management	tissue
Page 3		issue

398, Ramkrishnapur Road, Barasat

d) Performance

occurs when two different processes access two unrelated variables that reside

in the same data block	
a) Consistency	b) Paging overhead
c) False sharing	d) True sharing
(52) In approach, Shared-me ed a tuple space.	emory space is ordered as an associative memory call
a) No structuring	b) Structuring as a database
<ul> <li>c) Structuring by data type.</li> </ul>	d) Structuring as a program
(53) Implementation of the model for a	a DSM system is practically impossible.
a) Strict consistency	b) Causal consistency
c) sequential consistency	d) Non-sequential consistency
(54) A shared-memory system is said to support the of all memory access oper	the sequential consistency model if all processes see rations on the shared memory.
a) Same order	b) Different order
c) Different address	d) Same address
(55) In the model, Memory related may be seen by different processes in	reference operations that are not potentially causally a different orders.
a) Strict consistency	b) Sequential consistency
c) Weak consistency	d) Causal consistency
(56) The DSM system that supports the onization variable.	model uses a special variable called a synchr
a) Weak consistency	b) PRAM consistency
c) Sequential consistency	d) Causal consistency
(57) In Replicated migrating blocks, The two bas consistency in this case are	ic protocols that may be used for ensuring sequential
a) Read-invalidate and Write-update	b) Write-invalidate and Write-update
c) Write-invalidate and Read- update	d) Read-invalidate and Read-update
(58) Which of the following is not a stream ciphe	•
a) TBONE	b) RC5
c) RC4	d) Two fish
(59) refers to identifying each user of the h those users.	e system and associating the executing programs wit
a) One Time passwords	b) Authentication
c) Program Threats	d) Security
(60) Microkernel design imposes a uniform	
a) Process	b) Processor
c) Interface	d) System
(61) Microkernel supports	
a) Flexibility	b) Reliability
c) Accessible	d) Rigid
(62) Thread processor affinity is set of	-,8
a) Processes	b) Processors
c) Programs	d) Applications
(63) In UNIX, thread is	d) Applications
a) Runnable	h) Evenuting
c) Updated	b) Executing
(64) With Microkernel architecture it is possible to	d) Access
a) Application	
c) Data	b) Information
<b>'</b>	d) Message

Page 5 of 6

<ul> <li>(65) Which java feature is used to invoke a method on a <ul> <li>a) Process Control Block (PCB)</li> <li>c) Remote access control Block</li> </ul> </li> <li>(66) Fastest form of inter process communication provides) Virtual Memory</li> <li>c) Shared Memory</li> </ul>	d) Resource Allocaton graph  ded in UNIX is  b) Memory  d) Main Memory	
<ul> <li>(67) In distributed system, link and site failure is detect</li> <li>a) Polling</li> <li>c) Token-passing</li> <li>(68) The capability of a system to adapt the increased s</li> <li>a) Scalability</li> <li>c) Capacity</li> </ul>	d) Virtual routing	
<ul> <li>(69) What is not a major reason for building distributed</li> <li>a) Resource sharing</li> <li>c) Reliability</li> <li>(70) What are connection strategies not used in distribution</li> <li>a) Circuit switching</li> <li>c) Token switching</li> </ul>	d) Simplicity	