

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Program: BE Information Technology
Curriculum Scheme: Rev2012
Examination: Third Year Semester VI
Course Code: ITC602 and Course Name: Distributed Systems

Time: 1 hour

Max. Marks: 50

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

Q1.	If the wait for graph contains a cycle _____
Option A:	then a deadlock does not exist
Option B:	then a deadlock exists
Option C:	then the system is in a safe state
Option D:	either deadlock exists or system is in a safe state
Q2.	The basic RPC operation is made available to a program by means of routine append:_____
Option A:	newlist=append(dbList,data)
Option B:	newlist=append(data,dbList)
Option C:	newlist=data+dbList
Option D:	newlist=append(data)
Q3.	What is the standard language in CORBA that is used for defining the interface between distributed objects?
Option A:	HTML
Option B:	Java
Option C:	WSDL
Option D:	IDL
Q4.	Which algorithms are used for selecting a process to act as coordinator or sequencer
Option A:	Election algorithm
Option B:	Centralized algorithm
Option C:	Chandy-Misra-Haas algorithm
Option D:	Deadlock prevention Algorithm
Q5.	HPC means
Option A:	High-peak computing
Option B:	High-peripheral computing
Option C:	High-performance computing
Option D:	Highly-parallel computing
Q6.	Select appropriate phrase that cannot be used to complete this sentence. "Replication of shared data tend to_____"
Option A:	reduce network traffic
Option B:	promote increase in parallelism
Option C:	results in fewer page faults
Option D:	have less overhead to maintain consistency and coherence

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Q7.	Which of these does not include in the popularity of distributed computing
Option A:	Resource sharing
Option B:	Scalability
Option C:	Fault Tolerance
Option D:	Security
Q8.	The Intel format is called_____and the ARM format is called _____
Option A:	big indian
Option B:	big endian and little endian
Option C:	little endian and big endian
Option D:	little endian
Q9.	What is the name for Server Initiated replicas?
Option A:	distributed cache
Option B:	client cache
Option C:	push cache
Option D:	pull cache
Q10.	In RMI Architecture which layer Intercepts method calls made by the client/redirects these calls to a remote RMI service?
Option A:	Stub & Skeleton Layer
Option B:	Application Layer
Option C:	Remote Reference Layer
Option D:	Transport Layer
Q11.	Which of the following has “all-or-none” property?
Option A:	Atomicity
Option B:	Durability
Option C:	Isolation
Option D:	Confidentiality
Q12.	Services provided by SOA is an essential part of modern _____
Option A:	cloud computing and virtualization
Option B:	Data Virtualization
Option C:	Network Virtualization
Option D:	Data Mining
Q13.	CORBA Business Objects or Application Objects are specified and developed by _____.
Option A:	The OMG
Option B:	Application developers
Option C:	The CORBA ORB vendors
Option D:	Third-party developers
Q14.	EJB is like COM, Abbreviate the term COM?
Option A:	Component Object Model
Option B:	Component Oriented Model

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Option C:	Common Object Model
Option D:	Common Oriented Model
Q15.	Which of the following .NET components can be used to remove unused references from the managed heap?
Option A:	Common Language Infrastructure
Option B:	CLR
Option C:	Garbage Collector
Option D:	Class Loader
Q16.	Which of the following is not true for a weak consistency model?
Option A:	Deviation with respect to the ordering of update operations
Option B:	Client Centric Models are considered weak consistency
Option C:	Deviation in Numeric values on replicas
Option D:	Accesses to non critical sections are seen sequentially.
Q17.	UDDI uses the ----- language
Option A:	XML
Option B:	HTML
Option C:	WSDL
Option D:	WML
Q18.	Clients send _____ to servers, which send back _____.
Option A:	CORBA tokens, CORBA replies
Option B:	threads, result tables
Option C:	CORBA requests, IIOP
Option D:	CORBA requests, CORBA replies
Q19.	Which is a distributed caching technique amongst the following?
Option A:	Write-in
Option B:	Read-in
Option C:	Write Back
Option D:	Set Aside
Q20.	Which of these architecture is responsible for success of application server
Option A:	2-tier architecture
Option B:	3-tier architecture
Option C:	n-tier architecture
Option D:	peer to peer architecture
Q21.	Which one of the following is the deadlock avoidance algorithm?
Option A:	round-robin algorithm
Option B:	banker's algorithm
Option C:	elevator algorithm
Option D:	karn's algorithm
Q22.	Which type of server in distributed systems keep track of client status
Option A:	Stateless Server

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Option B:	Stateful server
Option C:	Stateful and stateless server
Option D:	neither keeps track
Q23.	Operations which are used to queue in a message-queuing system as:
Option A:	put, get, poll, notify
Option B:	notify
Option C:	poll
Option D:	put, get
Q24.	Which among the following is not included in three types of resource bindings
Option A:	Binding by variable
Option B:	Binding by identifier
Option C:	Binding by type
Option D:	Binding by value
Q25.	A message is stored by the communication system only as long as the sending and receiving application are executing is called _____ communication
Option A:	Transient
Option B:	Persistent
Option C:	Synchronous
Option D:	Asynchronous

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