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EMAIL: hadirajputofficial@gmail.com
WHATSAPP & CALL: 03087122922

(Final Term Past Paper)



MADE AND SOLVED BY TEAM HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!

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FINAL TERM PAST PAPER SOLVED BY TEAM HADI VU

CODE: CS609

NOTE: BEST TEAM OF VIRTUAL UNIVERSITY

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CS609

Question 1: DOS was a _____ Operating System.

- GUI based
- **Command line..... TEAM HADI VU**
- Real time
- Multitasking

Question 2: Which statement is incorrect about convenience function?

- A big task is performed by a single API
- It performs various tasks
- **It does not improve performance TEAM HADI VU**
- It improves the performance

Question 3: The path name of remote resource or server is started with ____.

- Forward slash()
- Backslash()
- Double backslash ()
- Both forward () and backslash()

Question 4: The exception can occur within a ____ _ embedded in the TRY block.

- List
- Filter Functions
- **Block TEAM HADI VU**
- Constructor

Question 5: RaiseException() API has ____ parameters.

- 2
- 3
- 4
- 5

Question 6: ____ API is used to get the path of current directory.

- **GetCurrentDirectory() TEAM HADI VU**
- SetCurrentDirectory
- PrintCurrentDirectory()
- Both GetCurrentDirectory() and SetCurrentDirectory()

Question 7: OVERLAPPED structure can be used for ____

- Multitasking only
- Set file pointer position only

- Both the multi-tasking and setting file pointer position
- Neither for multi-tasking and nor for file setting file pointer

Question 8: Which function is used to obtain the actual handle of a process?

- GetCurrentProcess()
- **OpenProcess().....TEAM HADI VU**
- CreateProcess()
- GetCurrentProcessId

Question 9: How many number of time's parameters are provided to a GetProcessTime() API to compute the elapsed time of a process?

- 0
- 1
- 2
- 4

Question 10: Which parameter is required to be pass to the ExitThread() API?

- **Thread ID**
- Thread Object name
- Both thread ID and its object name
- Thread ExitCode

Question 11: When all the threads of a process are made exit or terminate, then the process_____

- Will still survive
- Will terminate
- Will terminate for specified period of time
- Will temporarily suspend

Question 12: _____API creates thread handle from a thread ID.

- **GetThreadid**
- GetCurrentThreadid
- GetCurrentThread()
- OpenThread()

Question 13: Which of the following is not a thread model?

- Boss worker
- Client-server
- Pipeline
- Peer to peer

Question 14: In Thread Local Storage (TLS) arrangement, row represents, _____ while column represent _____

- Thread Number, TLS Index
- TLS Index, Thread Number
- Thread number, Process Number
- Process Number, TLS Index

Question 15: A fiber can obtain its identify by calling, _____ API.

- Get Current Fiber()
- **Get Fiber Data().....TEAM HADI VU**
- Get Fiber Id()
- Get Fiber Identity

Question 16: The use of global variable flag in the solution of critical section problem suffers or fails due to the _____ of threads.

- Context switch
- Hold and wait condition
- Sleeping condition
- Deadlock condition

Question 17: The use of _____ ensures that the main memory is updated and cache of all the processors is coherent.

- Volatile qualifier
- Global flag
- Volatile qualifier and Global flag
- **Memory barrier.....TEAM HADI VU**

Question 18: A thread can enter _____ time(s) into its critical section at different instances in thread synchronization.

- Only one
- Several
- Exactly ten
- At suspended

Question 19: For mutual exclusion to work, _____ variable(s) must be protected by a single synchronization object across all threads.

- Important
- local
- **SharedTEAM HADI VU**
- Local integer

Question 20: Producer consumer problem is a classical problem in _____

- multi exclusion
- mutual process
- **mutual exclusionTEAM HADI VU**
- object exclusion

Question 21: The producer also computes a simple, _____ of the message in the Producer-Consumer problem.

- checkmul
- checkdiv
- che sub
- **checksum.....TEAM HADI VU**

Question 22: Windows provides an object called a _____ Using this object we can enforce mutual exclusion.

- multex

- multask
- **mutex.....TEAM HADI VU**
- mutext

Question 23:Mutexes have some advantages beyond CRITICAL SECTION.

Mutexes can be named and have _____

- sections
- timers
- **handlesTEAM HADI VU**
- self-loops

Question 24:For the efficient use of critical section and mutexes, the thread priority should be decided by the _____

- Program
- OS Scheduler
- Mutex
- Critical Region

Question 25: Which of the following synchronization objects is not a named object?

- Critical Section
- Mutex
- Semaphore
- **Event.....TEAM HADI VU**

Question 26:Which of the following synchronization construct is used for semaphore?

- Enter
- Leave
- **WaitTEAM HADI VU**
- Set

Question 27: According to the MSDN the optimal spin count for heap related functions is__

- 3000
- **4000 TEAM HADI VU**
- 5000
- 6000

Question 28: Optimal spin-count ensures,_____

- Less system calls
- More system calls
- More overheads
- **Critical Section overheads.....TEAM HADI VU**

Question 29: A(n)_____ is a collection of worker threads that execute asynchronous callbacks on behalf of the application.

- Address Space
- **Threadpool TEAM HADI VU**
- Callback Functions
- Environment Variables

Question 30: When Create ThreadpoolWork() is called then_____ is(are) executed using the process thread pool.

- **Callback functions.....TEAM HADI VU**
- Kernel functions
- Kernel routines
- Work object code

Question 31: By default, the_____ makes scheduling decisions and allocates processors to each thread.

- System programmer
- **Kernel TEAM HADI VU**

- BIOS
- Loader

Question 32: can be used to assign a thread to a specific processor.

- Memory Management Unit
- Device Driver
- **Processor Affinity** TEAM HADI VU
- Loader

Question 33: _____ indicates the processors configured on the system .

- Process Affinity Mask
- **Processor Affinity Mask** TEAM HADI VU
- Thread Affinity Mask
- Kernel Affinity Mask

Question 34: Thread affinity mask is a subset of _____

- **Process Affinity Mask** TEAM HADI VU
- Processor Affinity Mask
- Thread Affinity Mask
- Kernel Affinity Mask

Question 35: If the filter expression was set to continue execution but it is not possible to continue, _____ exception code will be returned.

- **EXCEPTION_NONCONTINUABLE_EXECUTION.**
- EXCEPTION_NONCONTINUABLE_EXCEPTION.
- EXECUTION_NONCONTINUABLE_EXECUTION.
- EXECUTION_NONCONTINUABLE EXCEPTION.

Question 36: If a file has 39 number of fixed records, each of size 40 KB, then the size of file is calculated as

- $39 * 40 \text{ KB}$.
- **40 KB/ 39.**
- $1 + 39 * 40 \text{ KB}$.
- $1 - 39 * 40 \text{ KB}$

Question 37: We write and _____ functions in DLL and invoke these explicitly.

- Encrypt.
- Decrypt
- De-encapsulate.
- Encapsulate.

Question 38: Each _____ is a unit within the _____

- Kernel, Process.
- Process, Kernel.
- **Thread, Process. TEAM HADI VU**
- Process, Thread.

Question 39: In Thread Local Storage (TLS) arrangement, row represents while column represent _____

- Thread Number, TLS Index.
- TLS Index, Thread Number.
- Thread number, Process Number.
- Process Number, TLS Index

Question 40: Which function is used to obtain the actual handle of a process?

- GetCurrentProcess()
- **OpenProcess()..... TEAM HADI VU**
- CreateProcess()
- GetCurrentProcessId()

Question 41: A fiber can obtain its identify by calling _____ API.

- GetCurrentFiber().
- **GetFiberData().....TEAM HADI VU**
- GetFiberId().
- GetFiberIdentity()

Question 42: How many number of time's parameters are provided to a **GetProcessTime()** API to compute the elapsed time of a process?

- 1
- 0
- 4
- 3

Question 43: API creates thread handle from a thread ID.

- GetThreadId().
- GetCurrentThreadId().
- GetCurrentThread().
- **OpenThread().....TEAM HADI VU**

Question 44: Which of the following is not a thread model?

- Boss worker.
- Client-server.
- Pipeline.
- **Peer to peer,,.....TEAM HADI VU**

Question 45: If you want to create 4 threads i.e. Thread 0, Thread 1, Thread 2 and Thread 3, they all must be created _____ at state.

- Ready.
- Suspended.
- Running
- Blocked

Question 46: The producer also computes a simple ____ of the message in the Producer-Consumer problem.

- checkmul.
- checkdiv.
- checksub.
- **checksum.....TEAM HADI VU**

Question 47: For mutual exclusion to work, ____ variable(s) must be protected by a single synchronization object across all threads.

- Important.
- local.
- **Shared.TEAM HADI VU**
- Local integer

Question 48: Which of the following synchronization objects is not a named object?

- Critical Section,
- Mutex,
- Semaphore,
- **Event.....TEAM HADI VU**

Question 49: Producer consumer problem is a classical problem in ____

- multi exclusion.
- mutual process.
- **mutual exclusion.TEAM HADI VU**
- object exclusion.

Question 50: To minimize the concurrency related issues, ____

- **Mutex is unlocked on entry and locked on exit.check it**
- Size of the critical region should be minimized.
- Premature exits from the critical region are necessary.
- Critical Region must have more than one entry

Question 51: Windows provides an object called a _____. Using this object we can enforce mutual exclusion.

- multex.
- multask.
- **mutex. TEAM HADI VU**
- mutext

Question 52: Optimal spin-count ensures _____

- Less system calls.
- More system calls.
- More overheads.
- **Critical Section overheads..... TEAM HADI VU**

Question 52: _____ can be used to assign a thread to a specific processor.

- Memory Management Unit.
- Device Driver.
- **Processor Affinity. TEAM HADI VU**
- Loader

Question 53: A(n) _____ is a collection of worker threads that execute asynchronous callbacks on behalf of the application.

- Address Space.
- **Thread pool. TEAM HADI VU**
- Callback Functions.
- Environment Variables

Question 54: Mutexes have some advantages beyond CRITICAL_SECTION. Mutexes can be named and have _____

- **handles..... TEAM HADI VU**
- self-loops

- sections
- timers

Question 55: indicates the processors configured on the system?

- Process Affinity Mask.
- **Processor Affinity Mask.....TEAM HADI VU**
- Thread Affinity Mask.
- Kernel Affinity Mask

Question 56: According to the MSDN the optimal spin count for heap related functions is

- 5000
- 6000
- 3000
- **4000.....TEAM HADI VU**

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