Complete
Mark 1 out of 1

Not flagged
Flag question

Question text

In real time operating system Select one:

- A. Process scheduling can be done only once
- B. Kernel is not required
- C. All processes have the same priority
- D. A task must be serviced by its deadline period

Feedback

The correct answer is: A task must be serviced by its deadline period

Question 2

Complete

Mark 1 out of 1

Not flagged
Flag question

Question text

The priority of a real time task: Select one:

• A. Must not degrade over time

B. Must degrade over timeC. May degrade over timD. none of the mentioned
Feedback
The correct answer is: Must not degrade over time
Question 3
Complete Mark 1 out of 1 P ^{Not flagged} Flag question
Question text
Hard real time operating system has jitter than a soft real time operating system. Select one: A. less B. more C. equal D. none of the above
Feedback
The correct answer is: less
Question 4
Complete Mark 1 out of 1 Plag question
Question text
The method munlock() method does Select one: A. Unlock complete process address. B. Lock complete process address. C. Unlock region locked using mlock D. None of the above
Pandha al-

The correct answer is: Unlock region locked using mlock

Complete
Mark 1 out of 1

Not flagged
Flag question

Question text

If a kernel thread performs a blocking system call, ______.

Select one:

- A. The kernel can schedule another thread in the application for execution
- B. The kernel cannot schedule another thread in the same application for execution
- C. The kernel must schedule another thread of a different application for execution
- D. The kernel must schedule another thread of the same application on a different processor

Feedback

The correct answer is: The kernel can schedule another thread in the application for execution

Question 6

Complete
Mark 1 out of 1

Not flagged Flag question

Question text

The main functions of RTOS is/are _____.

Select one:

- A. Task manegment
- B. Scheduling
- C. Resource allocation
- D. Interrupt Handling
- E. All of the above

Feedback

The correct answer is: All of the above

Question 7

Complete
Mark 1 out of 1

Not flagged
Flag question

Question text
RTAI means Select one: A. Real time application index
B. Real time application Interchange
C. Real time application InterfaceD. Real time application Intercommunication
Feedback
The correct answer is: Real time application Interface
Question 8
Complete Mark 1 out of 1 Not flagged Flag question
Question text
IPC mechanism is used to communicate between RTAI task and linux process? Select one: A. Semaphore B. Shared Memory C. FIFO D. MailBox
Feedback
The correct answer is: FIFO
Question 9
Complete Mark 1 out of 1 Not flagged Flag question
Question text
to create real time task. Select one:
A. rt_create()
B. rtf_task_create()
C. rt_task_create()D. rtf_create()

The correct answer is: rt_task_create()

Question 10

Complete
Mark 1 out of 1

Not flagged Flag question

Question text

Which of the following Not uses O(1) schedular? Select one:

- A. RTLinux
- B. RTAI
- C. Xenomai
- D. None of the above

Feedback

The correct answer is: None of the above

Question 11

Complete
Mark 1 out of 1

Not flagged Flag question

Question text

_____ used to allocate a message pipe buffer. Select one:

- A. rt_pipe_alloc()
- B. rt_alloc_pipe()
- C. rtf_pipe_alloc()
- D. rtf_alloc_pipe()

Feedback

The correct answer is: rt_pipe_alloc()

Question 12

Complete
Mark 1 out of 1

Not flagged
Flag question

Question text

The Main features of an RTOS are	interrupt latency and a	
thread switching latency.		
Select one:		
A. Maximum, Maximum		
B. Maximum, Minimal		
© C. Minimal, Minimal		
D. Minimal, Maximum		

Feedback

The correct answer is: Minimal, Minimal

Question 13

Complete

Mark 0 out of 1

Not flagged Flag question

Question text

A process P1 has a period of 40 and a CPU burst of t1 = 25, P2 has a period of 60 and a CPU burst of 15. The total CPU utilization is :

Select one:

- A. 0.90
- B. 0.74
- © C. 0.94
- D. 0.87

Feedback

The correct answer is: 0.87

Question 14

Complete

Mark 1 out of 1

Not flagged Flag question

Question text

Using EDF algorithm practically, it is impossible to achieve 100 percent utilization due to : Select one:

- A. the cost of context switching
- B. interrupt handling

C. power consumptionD. all of the above
Feedback
The correct answer is: the cost of context switching
Question 15
Complete Mark 0 out of 1 Not flagged Flag question
Question text
Which of the following is an independent scheduling? Select one: A. LL B. LST C. EDD D. RMS
Feedback
The correct answer is: RMS
Question 16
Complete Mark 1 out of 1 Not flagged Flag question
Question text
If the taskPrioritySet is called on a blocked task, its new priority Select one: A. is considered while selecting the task to be unblocked B. is not considered while selecting the task to be unblocked C. is considered while selecting the task to be blocked D. is not considered while selecting the task to be blocked
Feedback
The correct answer is: is not considered while selecting the task to be unblocked

Complete
Mark 1 out of 1

Not flagged Flag question

Question text

Which is fastest semaphore in vxworks RTOS? Select one:

- A. Binary semaphore
- B. Mutual Exclusion
- C. Counting semaphore
- D. Both B and C

Feedback

The correct answer is: Binary semaphore

Question 18

Complete
Mark 1 out of 1

Not flagged
Flag question

Question text

In the typical RTOS, Select one:

- A. must be multitasking and multithreading
- B. It must not be preemptive
- C. must support dynamic memory allocation
- D. All the above

Feedback

The correct answer is: It must not be preemptive

Question 19

Complete
Mark 0 out of 1

Not flagged Flag question

Question text

rtai_malloc.o does Select one:

• A. Allocate memory with blocking from global heap B. Allocate memory without blocking from global heap C. Allocate memory with blocking from global stack D. Allocate memory without blocking from global stack **Feedback** The correct answer is: Allocate memory without blocking from global heap **Question 20** Complete Mark 1 out of 1 Not flagged Flag question **Question text** In RTOS, ISRs are minimal and non-blocking Select one: A. True B. False **Feedback** The correct answer is: True **Question 21** Complete Mark 1 out of 1 Not flagged Flag question **Question text** vTaskDelete() API function availble only when INCLUDE_vTaskDelete is set to ____ in

FreeRTOSConfig.h

Select one:

A. 1

B. 0

Feedback

The correct answer is: 1

Question 22

Complete

Mark 1 out of 1 Not flagged Flag question

Question text

Scheduling jitter means,

Select one:

- A. The variation in scheduling latency
- B. The variation in interrupt latency
- C. similar to schduling latency
- D. None of the above

Feedback

The correct answer is: The variation in scheduling latency

Question 23

Complete
Mark 0 out of 1

Not flagged
Flag question

Question text

The problem of priority inversion can be solved by Select one:

- A. Priority inheritance protocol
- B. Priority inversion protocol
- C. Both priority inheritance and inversion protocol
- D. None of the mentioned

Feedback

The correct answer is: Priority inheritance protocol

Question 24

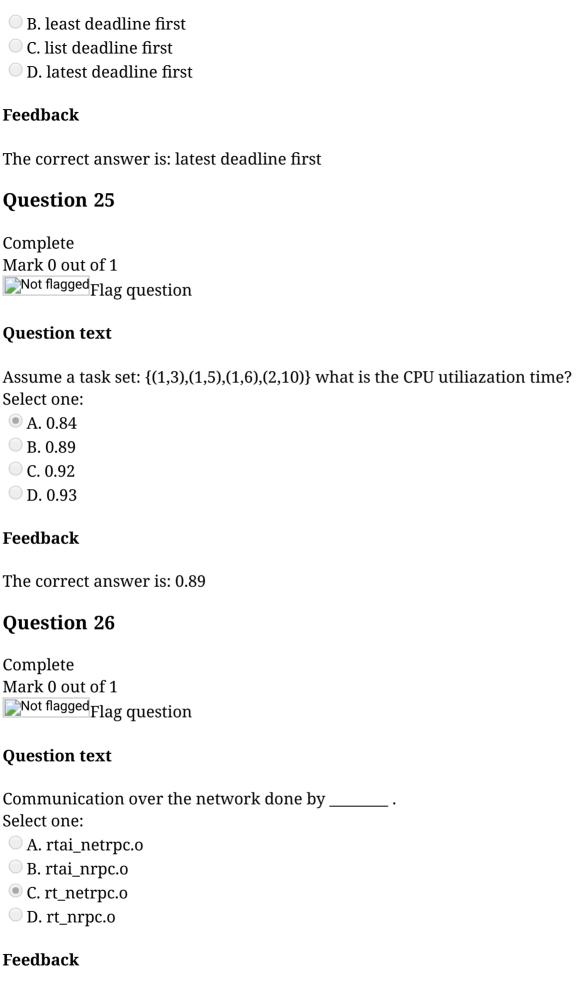
Complete
Mark 0 out of 1

Not flagged
Flag question

Question text

What does LDF stand for? Select one:

A. last deadline first



The correct answer is: rtai_netrpc.o

Complete Mark 1 out of 1 Not flagged Flag question

Question text

The message queue is deleted by ______.

- Select one:
- A. rtai_queue_delete()
- B. rt_queue_delete()
- C. rt_delete_queue()
- D. rtai_delete_queue()

Feedback

The correct answer is: rt_queue_delete()

Question 28

Complete Mark 1 out of 1 Not flagged Flag question

Question text

In round robin, task is stopped only when Select one:

- A. when task terminates
- B. task request io / blocking / sleep
- C. when high priority task is ready to execute
- D. All of the above

Feedback

The correct answer is: All of the above

Question 29

Complete Mark 1 out of 1 Not flagged Flag question

Question text

If there are a total of T = 100 shares to be divided among three processes, A, B and C. A is
assigned 50 shares, B is assigned 15 shares and C is assigned 20 shares. A will have
percent of the total processor time.
Select one:
A. 20
O B. 15
© C. 50
D. none of the above
Feedback
The correct answer is: 50
Question 30
Complete
Mark 1 out of 1
Not flagged Flag question
Question text
Soft irq's perform and can be by another hard irq.
Select one:
A. non-blocking, preempted
B. non-blocking, not preempted
C. blocking, not preempted
D. blocking, preempted
Feedback
The correct answer is: blocking, preempted
Question 31
Complete
Mark 1 out of 1
Plag question
Question text
Typical RTOS handles interrupts in
Select one:
A. Deterministic time
B. Non Deterministic time
C. Constant time

D. Non of the Above

The correct answer is: Deterministic time

Question 32

Complete
Mark 1 out of 1

Not flagged
Flag question

Question text

Witch is not a real time scheduling policy? Select one:

- A. FIFO
- B. RR
- © C. BATCH
- D. Non of the above

Feedback

The correct answer is: BATCH

Question 33

Complete
Mark 1 out of 1

Not flagged
Flag question

Question text

In FreeRTOS each call to vTaskSwitchContext() checks ______. Select one:

- A. if any task is unblocked due to delay function
- B. if any task is blocked due to delay function
- C. if any process is blocked due to delay function
- D. in any process is unblocked due to delay function

Feedback

The correct answer is: if any task is blocked due to delay function

Question 34

Complete
Mark 1 out of 1

Not flagged
Flag question

Question text

D. Priority

Question text
Time duration between the generation of interrupt and start execution of its service. Select one: A. Process Latency B. Dispatch Latency C. Interrupt Latency D. Execution Latency
Feedback
The correct answer is: Interrupt Latency
Question 35
Complete Mark 1 out of 1 Not flagged Flag question
Question text
In RTOS, device driver and task are kept in same address sapce i.e. kernel space Select one: A. True B. False
Feedback
The correct answer is: True
Question 36
Complete Mark 1 out of 1 Not flagged Flag question
Question text
The scheduling algorithm schedules periodic tasks using a static priority policy with preemption. Select one: A. Earliest deadline first B. Rate monotonic C. First cum first served

The correct answer is: Rate monotonic

Question 37

Complete Mark 0 out of 1

Not flagged Flag question

Question text

In rate monotonic scheduling algorithm, process Execution Time Period P1 $\{1\ 8\}$ P2 $\{2\ 5\}$ P3 $\{2\ 10\}$ What is the CPU utilization time?

Select one:

- A. 0.77
- B. 0.72
- © C. 0.84
- D. 0.92

Feedback

The correct answer is: 0.72

Question 38

Complete

Mark 1 out of 1

Not flagged Flag question

Question text

Can the processes in the previous question be scheduled without missing the deadlines? Select one:

- A. Yes
- B. No
- C. Maybe
- D. None of the above

Feedback

The correct answer is: Yes

Question 39

Complete

Mark 1 out of 1



Question text

Earliest deadline first algorithm assigns priorities according to _______.

Select one:

- A. Periods
- B. Burst times
- C. Deadlines
- D. None of the above

Feedback

The correct answer is: Deadlines

Question 40

Complete
Mark 0 out of 1

Not flagged Flag question

Question text

The most effective technique to keep dispatch latency low is to Select one:

- A. Provide non preemptive kernels
- B. Provide preemptive kernels
- C. Make it user programmed
- D. Run less number of processes at a time

Feedback

The correct answer is: Provide preemptive kernels

Finish review

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