Question 1

Complete
Mark 1 out of 1
Not flagged Flag question

Question text

GPOS have ____ and RTOS have ____ interrupt latencies.
Select one:
- A. smaller, higher
- ● B. higher, smaller
- C. higher, moderate
- D. moderate, higher

Feedback

The correct answer is: higher, smaller

Question 2

Complete
Mark 1 out of 1
Not flagged Flag question

Question text

What is ADEOS?
Select one:
- ● A. Adaptive Domain Environments for Operating Systems
- B. Acceptable Domain Environments for Operating Systems

C. Adaptive Domain Executions for Operating Systems
D. Acceptable Domain Executions for Operating Systems

Feedback

The correct answer is: Adaptive Domain Environments for Operating Systems

Question 3

Complete
Mark 1 out of 1
Not flagged Flag question

Question text

Which type of task needs CPU time after certain time interval repeatedly?
Select one:
A. aperiodic
B. periodic
C. real-time
D. non real-time

Feedback

The correct answer is: periodic

Question 4

Complete
Mark 1 out of 1
Not flagged Flag question

Question text

A task that is not made available to the multitasking kernel resides in which of the following?
Select one:
A. Dormant
B. ISR
C. wait
D. Ready

Feedback

The correct answer is: Dormant

Question 5

Complete
Mark 0 out of 1

Question text

Interrupt latency is defined as
Select one:

○ A. Maximum time interrupts are disabled + time to start executing user specific code in ISR

○ B. Time required to jump to first instruction of ISR

○ C. Maximum time Interrupts are disabled + Time to start executing first instruction of ISR

○ D. Minimum time Interrupts are eabled + Time to start executing user specific code in ISR

Feedback

The correct answer is: Maximum time Interrupts are disabled + Time to start executing first instruction of ISR

Question 6

Complete
Mark 1 out of 1

Question text
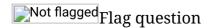
Priority inversion is caused because
Select one:

○ A. Low priority task takes control of semaphore

○ B. High priority task requires the semaphore

○ C. Medium priority task executes and thereby restricts

● D. Sequence of execution mentioned in A, B and C

Feedback

The correct answer is: Sequence of execution mentioned in A, B and C

Question 7

Complete
Mark 1 out of 1

Question text

In RTOS terminology Dormant refers to
Select one:
○ A. a task that is not compiled into the code
○ B. a task that is run at regular intervals
◉ C. a task that is not available to the multitasking kernel
○ D. a task that is continuously run in the system

Feedback

The correct answer is: a task that is not available to the multitasking kernel

Question 8

Complete
Mark 1 out of 1

Question text

In priority scheduling a priority number is associated with each process. The CPU is allocated to the process with the highest priority(smallest integer = highest priority). The problem of startvation, ie low priority processes may never execute, is resolved by_____
Select one:
○ A. Terminating the process
◉ B. Aging
○ C. Mutual Exclusion
○ D. Semaphore

Feedback

The correct answer is: Aging

Question 9

Complete
Mark 1 out of 1

Question text

Which of the following is true about RTAI?
Select one:

A. It is real time Linux implementation based on RTLinux.
B. It treats Linux kernel as a low priority real time task.
C. RTAI supports IPC and other real time services.
D. All of these.

Feedback

The correct answer is: All of these.

Question 10

Complete
Mark 1 out of 1
Not flagged Flag question

Question text

What is priority inversion?
Select one:
A. A low priority task waits for completion of high priority task.
B. A high priority task waits for completion of low priority task.
C. A interrupt handler is given more priority than real time task.
D. A real time task is given more priority than interrupt handler.

Feedback

The correct answer is: A high priority task waits for completion of low priority task.

Question 11

Complete
Mark 0 out of 1
Not flagged Flag question

Question text

Hard irqâs perform _____and can _____ by another hard irq.
Select one:
A. blocking, not preempted, non blocking, preempted
B. non blocking, not preempted, blocking, preempted
C. non blocking, preempted, blocking, not preempted
D. blocking, preempted, non blocking, not preempted

Feedback

The correct answer is: non blocking, not preempted, blocking, preempted

Question 12

Complete
Mark 1 out of 1
Flag question

Question text

In _____ OS, the response time is very critical.
Select one:
- ○ A. Multitasking
- ○ B. Batch
- ○ C. Online
- ⦿ D. Real-time

Feedback

The correct answer is: Real-time

Question 13

Complete
Mark 0 out of 1
Flag question

Question text

_____ is the nice value, _____ is the time share.
Select one:
- ○ A. Lower,lower
- ○ B. Higher, higher
- ○ C. Lower, higher
- ⦿ D. Higher, lower

Feedback

The correct answer is: Lower, higher

Question 14

Complete
Mark 0 out of 1
Flag question

Question text

In conventional RTOS, scheduler should have,

Select one:
○ A. Min CPU utilization
○ B. Min throughput
○ C. Min waiting time
◉ D. All of the above
○ E. None of the above

Feedback

The correct answer is: Min waiting time

Question 15

Complete
Mark 0 out of 1
Not flagged Flag question

Question text

When interrupt arives during process execution in kernel space, interrupt processing is not delayed until a natural preemption point is reached. Such kernels are called _____.
Select one:
○ A. Preemptible
◉ B. Non Preemptible
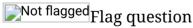○ C. Both A and B
○ D. None of the above

Feedback

The correct answer is: Preemptible

Question 16

Complete
Mark 1 out of 1
Not flagged Flag question

Question text

All RTOS kernels are non preemptible.
Select one:
◉ A. False
○ B. True

Feedback

The correct answer is: False

Question 17

Complete

Mark 0 out of 1

Question text

In conventional RTOS, Each task must have priority
Select one:
- A. Static
- ⦿ B. Dynamic
- C. Both A and B
- D. None of the above

Feedback

The correct answer is: Both A and B

Question 18

Complete

Mark 0 out of 1

Question text

In typical RTOS, Interrupt latencies should not be deterministic and minimal.
Select one:
- A. True
- ⦿ B. False
- C. Only B
- D. Both B and C
- E. Only A

Feedback

The correct answer is: Both B and C

Question 19

Complete

Mark 0 out of 1

Question text

Which of the following is not solution for priority inversion?
Select one:
○ A. Priority Ceiling
○ B. Priority Boosting
○ C. Interrupt disabling
◉ D. Avoid blocking in synchronisation
○ E. None of the above

Feedback

The correct answer is: None of the above

Question 20

Complete
Mark 0 out of 1
Not flagged Flag question

Question text

Which of the following mode is architecture specific?
Select one:
○ A. periodic
○ B. aperiodic
○ C. one shot
◉ D. None of the above

Feedback

The correct answer is: periodic

Question 21

Complete
Mark 0 out of 1
Not flagged Flag question

Question text

In RR scheduling, task is stopped only when
Select one:
○ A. task is terminated
○ B. task gives up CPU volunteerily
◉ C. when time slice/quantum allocated to the task is completed

○ D. All of the above

Feedback

The correct answer is: All of the above

Question 22

Complete
Mark 1 out of 1
Not flagged Flag question

Question text

which of the following do not support real time applications?
Select one:
○ A. SCHED_RR
◉ B. SCHED_OTHER
○ C. SCHED_FIFO
○ D. None of the above

Feedback

The correct answer is: SCHED_OTHER

Question 23

Complete
Mark 1 out of 1
Not flagged Flag question

Question text

Which one of the following is a real time operating system?
Select one:
○ A. windows CE
○ B. RTLinux
○ C. VxWorks
◉ D. all of the above

Feedback

The correct answer is: all of the above

Question 24

Complete

Question text

Which of the following unlock the region of memory even if itâ s being locked multiple times by a process?
Select one:

  ○ A. munlock
  ○ B. munlockall
  ○ C. only A
  ○ D. only B
  ○ E. Both A and B

Feedback

The correct answer is: Both A and B

Question 25

Complete
Mark 0 out of 1

Question text

The delay that might take place between the triggering of an event and the time the application actually processes it. Such delay is commonly called jitter.
Select one:

  ○ A. True
  ○ B. False

Feedback

The correct answer is: False

Question 26

Complete
Mark 1 out of 1

Question text

Which of the following is not Linux based RTOS
Select one:

  ○ A. RTLinux

B. RTAI
   C. Xenomai
   D. pSos

Feedback

The correct answer is: pSos

Question 27

Complete
Mark 1 out of 1
Not flagged Flag question

Question text

Which of the following algorithm is used with static priorities?
Select one:
   A. rate monotonic scheduling
   B. earliest deadline first
   C. propprtional share
   D. None of the above

Feedback

The correct answer is: rate monotonic scheduling

Question 28

Complete
Mark 0 out of 1
Not flagged Flag question

Question text

Which of the following is not RTOS
Select one:
   A. Vx works
   B. Windows CE
   C. VRTX
   D. none of the above

Feedback

The correct answer is: none of the above

Question 29

Complete

Mark 0 out of 1

Flag question

Question text

In RTOS, size of memory used by queue is predefined.
Select one:
- ○ A. true
- ◉ B. false

Feedback

The correct answer is: true

Question 30

Complete

Mark 0 out of 1

Flag question

Question text

Admission control system verifies
Select one:
- ○ A. whether newly created task can be completed whithin deadline
- ○ B. priority of newly created task
- ◉ C. Both A and B
- ○ D. None of the above

Feedback

The correct answer is: whether newly created task can be completed whithin deadline

Question 31

Complete

Mark 1 out of 1

Flag question

Question text

Cortex M3 family do not support RTOS porting.
Select one:
- ○ A. True

B. False

Feedback

The correct answer is: False

Question 32

Complete
Mark 0 out of 1
Not flagged Flag question

Question text

Which of the following is not RTOS?
Select one:
- A. xenomai
- B. uc-linux
- C. uC-os
- D. VRTX
- E. All of the above

Feedback

The correct answer is: All of the above

Question 33

Complete
Mark 1 out of 1
Not flagged Flag question

Question text

In rate monotonic scheduling, processes P1 and P2 has time 20 and 35 respectively, also has priority 50 and 100 respectively. Will task scheduled within deadline?
Select one:
- A. Yes
- B. No
- C. None

Feedback

The correct answer is: Yes

Question 34

Complete

Mark 1 out of 1

Question text

Which of the following is true for Hard real time systems?

Select one:

○ A. Degree of tolerance for missed deadline is extremely small or zero and a missed deadline has catastrphic result for the system.

○ B. missing a deadline might result in an unacceptable quality reduction.

○ C. deadline may be missed and can be recovered from and reduction in system quality is acceptable

○ D. None of the above

Feedback

The correct answer is: Degree of tolerance for missed deadline is extremely small or zero and a missed deadline has catastrphic result for the system.

Question 35

Complete

Mark 1 out of 1

Question text

Which of the following is not RTAI scheduler?

Select one:

○ A. UP

○ B. SMP

○ C. MUP

○ D. None of the above

Feedback

The correct answer is: None of the above

Question 36

Complete

Mark 1 out of 1

Question text

In which type of RTOS, a failure /any miss of deadline leads to catastrophic effect
Select one:
○ A. Hard realtime
○ B. Soft realtime
○ C. Firm realtime
○ D. All of the above

Feedback

The correct answer is: Hard realtime

Question 37

Complete
Mark 1 out of 1
Not flagged Flag question

Question text

Which of the following is not RTOS?
Select one:
○ A. Symbian
○ B. pSOS
○ C. Windows CE
● D. None of these

Feedback

The correct answer is: None of these

Question 38

Complete
Mark 1 out of 1
Not flagged Flag question

Question text

Which of the following is not RTOS scheduling algorithm?
Select one:
○ A. Proportional Share
○ B. Earliest Deadline First
○ C. Rate Monotonic Scheduling
● D. None of these

Feedback

The correct answer is: None of these

Question 39

Complete
Mark 0 out of 1
Not flagged Flag question

Question text

Which of the following is not Linux based RTOS?
Select one:
○ A. MontaVista
○ B. Xenomai
◉ C. uCLinux
○ D. None of these

Feedback

The correct answer is: None of these

Question 40

Complete
Mark 1 out of 1
Not flagged Flag question

Question text

Which of the following is not solution for priority inversion?
Select one:
○ A. Priority ceiling
○ B. Random boosting
○ C. Priority inheritance
◉ D. None of these

Feedback

The correct answer is: None of these

Finish review

Quiz navigation

Finish review