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. RTLinux
- B. VxWorks
- C. Windows CE
- D. All of the mentioned

#### **Feedback**

The correct answer is: All of the mentioned

# **Question 2**

Complete

Mark 0 out of 1

Not flagged
Flag question

### **Question text**

Preemptive, priority based scheduling guarantees Select one:

- A. Hard real time functionality
- B. Soft real time functionality

C. Protection of memory D. None of the above
Feedback
The correct answer is: Soft real time functionality
Question 3
Complete Mark 1 out of 1 Not flagged Flag question
Question text
In a real time system, it is guaranteed that critical real time tasks will be completed within their deadlines.  Select one:  A. Soft  B. Hard  C. Critical  D. None of the above
Feedback
The correct answer is: Hard
Question 4
Complete Mark 1 out of 1 Poot flagged
Question text
Some of the properties of real time systems include : Select one: A. Single purpose B. Inexpensively mass produced C. Small size D. All of the above
Feedback

The correct answer is: All of the above

Complete Mark 0 out of 1 Not flagged Flag question

### **Question text**

If a set of processes cannot be scheduled by rate monotonic scheduling algorithm	, then :
Select one:	

- A. They can be scheduled by EDF algorithm
- B. They cannot be scheduled by EDF algorithm
- C. They cannot be scheduled by any other algorithm
- D. None of the above

#### **Feedback**

The correct answer is: They cannot be scheduled by any other algorithm

# **Question 6**

Complete Mark 1 out of 1 Not flagged Flag question

#### **Question text**

The method mlock() does	•
Select one:	
• A. Lock Complete process address space.	

- B. Lock specified region of process address space.
- C. Lock the whole process.
- D. None of the Above.

#### **Feedback**

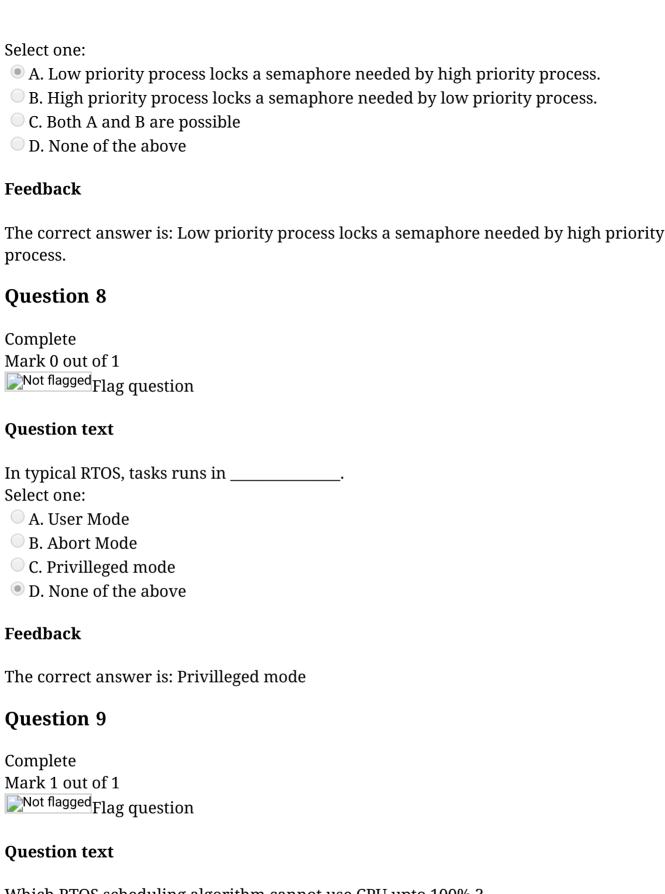
The correct answer is: Lock specified region of process address space.

# **Question** 7

Complete Mark 1 out of 1 Not flagged Flag question

#### **Question text**

Priority inversion can be happen if \_\_\_\_\_\_.



Which RTOS scheduling algorithm cannot use CPU upto 100%? Select one:

- A. Propostional share
- B. Earliest deadline frist
- C. Rate Monotonic Scheduling
- D. None of the above

#### **Feedback**

The correct answer is: Rate Monotonic Scheduling

# **Question 10**

Complete
Mark 1 out of 1

Not flagged
Flag question

### **Question text**

RTAI supports \_\_\_\_\_ architectures.
Select one:
A. X86
B. X86\_64
C. Power PC
D. ARM cortex M3

#### **Feedback**

The correct answer is: All of the Above

# **Question 11**

Complete

Mark 0 out of 1

Not flagged Flag question

E. All of the Above

#### **Question text**

Which of the following function is used to create real time task in RTAI? Select one:

- A. rt\_task\_init()
- B. rt\_init\_task()
- © C. rtai\_init\_task()
- D. rtai\_task\_init()

#### **Feedback**

The correct answer is: rt\_init\_task()

# **Question 12**

Complete
Mark 1 out of 1

Not flagged Flag question

#### **Question text**

Real time systems must have	
Select one:	
A. Preemptive kernels	
B. Non preemptive kernels	
C. Neither preemptive nor non preemptive	kernels
D. None of the above	

#### **Feedback**

The correct answer is: Preemptive kernels

# **Question 13**

Complete

Mark 0 out of 1

Not flagged
Flag question

### **Question text**

A task execting in the ready state cannot be moved into which of the following states? Select one:

- A. wait, ISR state
- B. Running state
- C. Dormant state
- D. Both A and B

#### **Feedback**

The correct answer is: wait, ISR state

# **Question 14**

Complete
Mark 1 out of 1

Not flagged Flag question

#### **Question text**

What parameter is of less significance with reference to RTOS? Select one:

- A. Interrupt latency
- B. Interrupt recovery time
- C. Interrupt response time
- D. Throughput

The correct answer is: Throughput

# **Question 15**

Complete
Mark 1 out of 1

Not flagged
Flag question

#### **Question text**

Which of the following can be applied to periodic scheduling? Select one:

- A. EDF
- B. LL
- C. LST
- D. EDD

### **Feedback**

The correct answer is: EDF

# **Question 16**

Complete

Mark 0 out of 1

Not flagged Flag question

### **Question text**

Which linux service gets called from RT task to creates a real time fifo (RT-FIFO). Select one:

- A. rtf\_create()
- B. rtfifo\_create()
- C. rtf\_create\_task()
- D. rtfifo\_create\_task()

#### **Feedback**

The correct answer is: rtf\_create()

# **Question 17**

Complete

Mark 1 out of 1

Not flagged Flag question

#### **Question text**

A	of a task is the time at which the release of a task will produce the largest
response tii	me.
Select one:	

- A. soft instance
- B. hard instance
- C. critical instance
- D. both A and B

#### **Feedback**

The correct answer is: critical instance

# **Question 18**

Complete

Mark 0 out of 1

Not flagged Flag question

### **Question text**

Reentrant function is one that

Select one:

- A. should be executed by only one task at a time otherwise data corruption occurs
- B. will allow 2 tasks to use it but not more than 2
- C. will allow any number of taskd to execute it without data corruption
- D. Both A and B

#### **Feedback**

The correct answer is: will allow any number of taskd to execute it without data corruption

# **Question 19**

Complete

Mark 1 out of 1



### **Question text**

RTOS handles interrupts in Select one:

- A. Deterministic Time
- B. Non Deterministic time
- C. Constant time

D. None of the Above

#### **Feedback**

The correct answer is: Deterministic Time

### **Question 20**

Complete
Mark 1 out of 1

Not flagged Flag question

# **Question text**

In proportional share algorithm, CPU time = 100 shares (T = 100) P1 = 50 shares P2 = 15 shares P3 = 20 shares What is the cpu utilization?

Select one:

- A. 0.079
- B. 0.85
- C. 0.085
- D. 0.79

#### **Feedback**

The correct answer is: 0.85

# **Question 21**

Complete
Mark 0 out of 1

Not flagged Flag question

### **Question text**

Interrupt jitter means,

Select one:

- A. The variation in interrupt latency
- B. The variation in interrupt arrival time
- C. The interrupt latency
- D. None of the above

#### **Feedback**

The correct answer is: The variation in interrupt latency

# **Question 22**

Complete
Mark 0 out of 1

Not flagged Flag question

#### **Question text**

Which scheduling algorithm is an optimal scheduling policy for mono-processor system? Select one:

- A. preemptive algorithm
- B. LST (Least stack time)
- C. EDD (Earlist due date)
- D. LL (Least laxity)

#### **Feedback**

The correct answer is: LL (Least laxity)

# **Question 23**

Complete

Mark 1 out of 1

Not flagged Flag question

# **Question text**

Identify which of these are real-time applications scenarios: Select one:

- A. An on-line bus ticketing system
- B. Printing of annual report of a company's annual report
- C. Reconciling a day's transactions in an account book of a small company
- D. An aircrafts' yaw control system

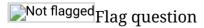
#### **Feedback**

The correct answer is: An aircrafts' yaw control system

# **Question 24**

Complete

Mark 1 out of 1



### **Question text**

Which algorithm is non-preemptive and can be used with a mono processor? Select one:

- A. LDFB. pre-emptiveC. aperiodic
- OD. LL

The correct answer is: LDF

# **Question 25**

Complete

Mark 0 out of 1

Not flagged Flag question

### **Question text**

Deadline interval – execution time = Select one:

- A. laxity
- B. execution time
- C. deadline interval
- D. period

#### **Feedback**

The correct answer is: laxity

# **Question 26**

Complete

Mark 0 out of 1



### **Question text**

The execution of the task is known as Select one:

- A. Process
- B. Job
- C. Task
- D. Thread

#### **Feedback**

The correct answer is: Job

Complete
Mark 0 out of 1

Not flagged Flag question

#### **Question text**

Which of the following can execute quickly, if the interrupt priority is higher in the system? Select one:

- A. EDD
- B. Sporadic event
- C. LL
- D. Aperiodic scheduling

#### **Feedback**

The correct answer is: Sporadic event

# **Question 28**

Complete
Mark 1 out of 1

Not flagged Flag question

#### **Question text**

The scheduler admits a process using :

Select one:

- A. two phase locking protocol
- B. admission control algorithm
- C. busy wait polling
- D. none of the above

#### **Feedback**

The correct answer is: busy wait polling

# **Question 29**

Complete
Mark 1 out of 1

Not flagged
Flag question

### **Question text**

If there are a total of T = 100 charge to be divided among three processes. A. P. and C. A. is
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.C will have
percent of the total processor time.
Select one:
• A. 20
B. 15
C. 50

The correct answer is: 20

D. none of the above

# **Question 30**

Complete

Mark 1 out of 1

Not flagged
Flag question

### **Question text**

Which are types of RTAI tasks?
Select one:
A. Short, Long
B. IO bound, CPU bound
C. Single threaded, Multi threaded

D. One Shot, Periodic

#### **Feedback**

The correct answer is: One Shot, Periodic

# **Question 31**

Complete

Mark 1 out of 1

Not flagged
Flag question

### **Question text**

Which of the following is not work of the Real time executive? Select one:

- A. RT task management
- B. RT IPC
- C. Memory Management and file IO
- D. Scheduling

The correct answer is: Memory Management and file IO

# **Question 32**

Complete
Mark 1 out of 1

Not flagged Flag question

### **Question text**

In FreeRTOS, if multiple task	ts are same priority and are always in running or ready state
then kernel create	where each gets a full ticks before switching to next.
Select one:	
A. least laxity frist	
B. round Robin model	
C. earilest deadline frist	
D. rate monotonic	

#### **Feedback**

The correct answer is: round Robin model

# **Question 33**

Complete
Mark 1 out of 1

Not flagged
Flag question

### **Question text**

The Cortex-M3 port includes which of the following standard FreeRTOS features Select one:

- A. Pre-emptive or co-operative operation
- B. Very flexible task priority
- C. Queues
- D. Mutex
- E. All of the above

#### **Feedback**

The correct answer is: All of the above

# **Question 34**

Complete

Mark 1 out of 1  Not flagged Flag question
Question text
For real time operating systems, interrupt latency should be
Select one:
A. Maximum
B. Minimal
C. Zero
D. Dependent on the scheduling
Feedback
The correct answer is: Minimal
Question 35
Complete
Mark 0 out of 1
Not flagged Flag question
Question text
A task can use the API function to delete itself or other task
Select one:
A. vDeleteTask()
B. vDelete()
C. vTaskDelete()
D. TaskDelete()
Feedback
The correct answer is: vTaskDelete()
Question 36
Complete
Mark 0 out of 1
Not flagged Flag question
Question text
Type of processor in which single task of a particular application is process is termed as
Select one:

• A. Real time processor B. Dedicated processor C. Applicant processor D. One task processor **Feedback** The correct answer is: Dedicated processor **Question 37** Complete Mark 0 out of 1 Not flagged Flag question **Question text** If the period of a process is 'p', then the rate of the task is \_\_\_\_\_ Select one: A. p^2 ○ B. 2\*p C. 1/p □ D. p **Feedback** The correct answer is: 1/p **Question 38** Complete Mark 0 out of 1 Not flagged Flag question **Question text** In rate monotonic scheduling, a process with a shorter period is assigned: Select one: • A. A higher priority B. A lower priority

#### **Feedback**

The correct answer is: A higher priority

C. Higher & lower priority

D. None of the above

Complete
Mark 1 out of 1

Not flagged
Flag question

#### **Question text**

Real time systems need to \_\_\_\_\_\_ the interrupt latency.

Select one:

A. Minimize
B. Maximize
C. Not bother about

#### **Feedback**

The correct answer is: Minimize

# **Question 40**

Complete
Mark 1 out of 1

Not flagged
Flag question

D. None of the above

#### **Question text**

The amount of time required for the scheduling dispatcher to stop one process and start another is known as \_\_\_\_\_\_. Select one:

- A. Event latency
- B. Interrupt latency
- C. Dispatch latency
- D. Context switch

#### **Feedback**

The correct answer is: Dispatch latency

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