Week 9 : Assignment 9

The due date for submitting this assignment has passed.

Due on 2021-09-29, 23:59 IST.

As per our records you have not submitted this assignment.

1) POSIX stands for: *1 point*

a. Portable Operating System Interface
b. Profitable Operating System Interface
c. Portable Operational System Interface
d. Preemptable Operating System Interface
e. Printable Operating System Interface

a. b. c. d. e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.

2) Which of the following statements are FALSE concerning Open System? *1 point*

a. Open system is a vendor-neutral system
b. Open systems do not allow a user to intermix hardware, software and networking solutions from different vendors
c. Open systems are copyrighted
d. Open systems help achieve interoperability and portability
e. All of these

a. b. c. d. e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b.
c.

3) PSOS embedded real-time operating system is best suitable for which types of applications? *1 point*

a. Embedded applications
b. Avionics applications
c. Database applications
d. Graphical applications
e. Multimedia applications
f. Automotive applications
g. Telecom applications

a. b. c. d. e. f. g.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.

4) Which of the following operating systems are based on Preemption point approach? *1 point*

a. VRTX
b. VxWorks
c. RT Linux
d. HP-UX
e. Windows CE

a. b. c. d. e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
d.
e.

5) Which of the following are NOT considered as disadvantages of RT Linux? *1 point*

a. Duplicated coding effort.
b. Fragile execution environment.
c. Programs need to be written using a small subset of POSIX API.
d. The source code is available.
e. Users can use their own schedulers.

a. b. c. d. e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
d.
e.

6) In µC/OS-II, the Source code is written in: *1 point*

a. ANSI C
b. C++
c. C#
d. JAVA
e. SMALL TALK

a. b. c. d. e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.

7) Which of the following operating systems was deployed in the Mars Path Finder? *1 point*

a. VRTX MC
b. VRTX SA
c. VxWorks
d. PSOS
e. RT Linux
f. Lynx
g. Windows CE

a. b. c. d. e. f. g.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.

8) If you are developing a small real-time embedded application eradicating issues of NT, which of the following operating systems would be suitable? *1 point*

a. Unix V
b. Windows
c. Windows CE
d. QNX
e. None of these

a. b. c. d. e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.

9) Which of the following statements are FALSE concerning Win CE? *1 point*

a. WinCE 3.0 supports priority inheritance.
b. WinCE processes share a single page table.
c. WinCE supports multiprocessors.
d. WinCE can support up to only 16 simultaneously executing processes.
e. Processes in WinCE have 32MB address space.

a. b. c. d. e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.
d.

10) Which of the following benchmarks deal with server-side Java applications? *1 point*

a. SPECviewperf
b. SPEC 95
c. SPEC JVM98
d. SPEC JBB2000
e. SPEC WEB2005

a. b. c. d. e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
d.

11) Which one of the following metrics represents the time it takes to start the execution of the required ISR after an interrupt occurs? *1 point*

a. Task switching time
b. Task preemption time
c. Interrupt latency time
d. Semaphore shuffling time
e. Deadlock breaking time
f. Datagram throughput time
g. Process dispatch time

a. b. c. d. e. f. g.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.

12) Suppose the time to complete a certain task when there are no interrupts is 2 seconds and the time to complete the same task when 40,000 interrupts occur per second is 3.2 seconds. Find the overhead due to 40,000 interrupts per second. *1 point*

a. 30% of the task execution time
b. 40% of the task execution time
c. 50% of the task execution time
d. 60% of the task execution time
e. 80% of the task execution time

a. b. c. d. e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
d.