



**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(AUTONOMOUS)**

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DEPARTMENT OF INFORMATION TECHNOLOGY

Examination : B.Tech, V Semester
Course name : Real Time Operating System
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Branch : IT
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UNIT I OBJECTIVE QUESTIONS

1. Use of robot by car manufacturing companies is an example of

- A. machine controlled computers
- B. network controlled computers
- C. applicant controlled computers
- D. user controlled computers

A

2. System which processes data instructions without any delay is classified as

- A. real time system
- B. online system
- C. offline system
- D. instruction system

A

3. Type of processor in which single task of a particular application is process is termed as

- A. real time processor
- B. dedicated processor
- C. applicant processor

D. one task processor

B

4. Designing of system take into considerations of

A. hardware

B. communication system

C. operating system

D. all of above

D

5. Consideration of storage, input and output devices are considered as requirement of

A. hardware requirement

B. communication requirement

C. software requirement

D. process requirement

A

6. In multiprogramming, programmer chooses programs which are suitable to run together from

A. job center

B. job terminal

C. job queue

D. timed job

C

7. Last step in running and preparing batch jobs is to

A. printout is return

B. printout is started

- C. printout is queued
- D. printout is verified

A

8. Jobs processed in multiprogramming are to be done

- A. very quickly
- B. very slow
- C. very time consuming
- D. very systematic

A

9. Basically, purpose of multiprogramming is to use processor and peripherals in

- A. efficient way
- B. bad way
- C. systematic way
- D. functional way

A

10. Second step in running and preparing batch jobs is to

- A. wait in the queue
- B. store output
- C. write on printed sheets
- D. verify the work

D

11. Secondary storage memory is basically

- A. volatile memory
- B. nonvolatile memory
- C. backup memory

D. impact memory

B

12. When power is switched OFF, it will lost its data, such type of memory is classified as

- A. volatile storage
- B. nonvolatile storage
- C. impact storage
- D. non-impact storage

A

13. Process of reading data from permanent store and writing it to computer's main store is called

- A. saving the data
- B. loading the data
- C. writing the data
- D. reading the data

B

14. The operation of removing trapped air from the hydraulic braking system is known as

- ☐ (A) Trapping
- ☐ (B) Tapping
- ☐ **(C) Bleeding**
- ☐ (D) Cleaning

15. In a four wheel drive (4WD), the numbers of gear boxes are

- ☐ (A) 1
- ☐ **(B) 2**
- ☐ (C) 3
- ☐ (D) 4

16. The function of anti-lock brake system (ABS) is that is

- ☐ (A) Reduces the stopping distance
- ☐ (B) Minimizes the brake fade
- ☐ **(C) Maintains directional control during braking by preventing the wheels from locking**
- ☐ (D) Prevents nose dives during braking and thereby postpones locking of the wheels

17. Hard real time operating system has ____ jitter than a soft real time operating system.

- a) less**
- b) more
- c) equal
- d) none of the mentioned

Explanation: Jitter is the undesired deviation from the true periodicity.

18. For real time operating systems, interrupt latency should be

- a) minimal
- b) maximum
- c) zero
- d) dependent on the scheduling

[View Answer](#)

Answer: a

Explanation: Interrupt latency is the time duration between the generation of interrupt and execution of its service.

19. Which one of the following is a real time operating system?

- a) RTLinux
- b) VxWorks
- c) Windows CE
- d) All of the mentioned**

20. Hard real time operating system has ____ jitter than a soft real time operating system.

- a) less**
- b) more
- c) equal

d) none of the mentioned

Explanation: Jitter is the undesired deviation from the true periodicity.

21. Time duration required for scheduling dispatcher to stop one process and start another is known as

- a) process latency
- b) dispatch latency**
- c) execution latency
- d) interrupt latency

22. Which of the following activities may be included in a real-time software design process?

- a) Platform selection
- b) Timing analysis
- c) Process design
- d) All of the mentioned

[View Answer](#)

Answer: d

Explanation: All these can be implemented.

23. Which of the following is not a real-time architectural pattern

- a) Observe and React
- b) Environmental Control
- c) Embedded System
- d) Process Pipeline

Answer: c

Explanation: Embedded systems' patterns are process-oriented rather than object- or component-oriented .

24. RTOS stands for

- a) real-life operating system
- b) real-time operating system
- c) real-time operating software
- d) real-life operating software

[View Answer](#)

Answer: b

Explanation: Embedded applications are built on top of a real-time operating

system (RTOS

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