1 sc	heduler selects the jobs from the pool of jobs and loads into the ready queu
Long term	
Short term	
Medium term	
None of the al	pove
2 c	does the job of allocating a process to the processor.
Long term sch	eduler
Short term sch	neduler
Medium term	scheduler
Dispatcher	
3. A process ca	n be
single-threade	d
multi-threaded	d
Both single-th	readed and multi-threaded
None of above	<u> </u>
4. A process ca	n be terminated due to
normal exit	
fatal error	
killed by anoth	ner process
All of the men	tioned
5. A Process Co	ontrol Block(PCB) does not contain which of the following :
B <mark>oo</mark> tstrap prog	g <mark>ram</mark>
Stack	
Process State	
I/O status info	rmation

6. An optimal scheduling algorithm in terms of minimizing the average waiting time of a given set of processes is
First come First served scheduling algorithm
Round robin scheduling algorithm
Shortest job - first scheduling algorithm
None of the above
7. CPU performance is measured through
Throughput Throughput
MHz
Flaps
None of the above
8. FIFO scheduling is
Preemptive Scheduling
Non Preemptive Scheduling
Deadline Scheduling
Fair share scheduling
9. In operating system, each process has its own
address space and global variables
open files
pending alarms, signals and signal handlers
All of the mentioned
10. In Priority Scheduling a priority number (integer) is associated with each process. The CPU is allocated to the process with the highest priority (smallest integer = highest priority). The problem of Starvation of low priority processes may never execute, is resolved by
Terminating the process

Aging
Mutual Exclusion
Semaphore
11. In the blocked state,
The process which is running is found
The processes waiting for I/O are found
The processes waiting for the processor are found
None of the above
12. In Unix, Which system call creates the new process?
<mark>for</mark> k
create
new
first
13. Kernel threads
cannot be supported and managed directly by the operating system
can be supported and managed directly by the operating system
are supported below the kernel and are managed without kernel support
None of the above
14. Light weight process is called
thread
tiny process
small process
stack

15. Most operating systems (including UNIX, Linux, and Windows) identify processes according to a unique
process counter
process state
process number
process identifier
16. Process control block (PCB) contains which of the following:
List of open files
Process state
Process id
All of the mentioned
17. Round robin scheduling falls under the category of
Non-preemptive scheduling
Preemptive scheduling
All of the mentioned
None of the mentioned
18. Round robin scheduling is essentially the preemptive version of
First come First served scheduling algorithm
Shortest job first scheduling algorithm
Shortest remaining time next scheduling algorithm
Non preemptive priority scheduling algorithm
19. Saving the state of the old process and loading the saved state of the new process is called
Context Switch
State

Multi programming
None of the above
20. Suppose that a process is in "Blocked" state waiting for some I/O service. When the service is completed, it goes to the :
Running state
Ready state
Suspended state
Terminated state
21. The entry of all the PCBs of the current processes is in :
Process Register
Program Counter
Process Table
Process Unit
22. The list of processes waiting for a particular I/O device is called a
device queue
ready queue
job queue
all of the mentioned
23. The number of processes completed per unit time is known as
Output
Throughput
Efficiency
Capacity

 ${\bf 24.}\ The\ primary\ distinction\ between\ the\ short\ term\ scheduler\ and\ the\ long\ term\ scheduler\ is\ :$

The length of their queues
The type of processes they schedule
The frequency of their execution
None of these
25. The Process Control Block is :
Process type variable
Data Structure
A secondary storage section
A block in memory
26. The processes that are residing in main memory and are ready and waiting to execute are kept on a list called the
device queue
ready queue
job queue
All of the mentioned
27. The ready queue is generally stored as a
Array
Stack
Linked List
None of above
28. The state of a process is defined by :
The final activity of the process
The activity just executed by the process
The activity to next be executed by the process
The current activity of the process

29. The strategy of making processes that are logically runnable to be temporarily suspended is called
Non preemptive scheduling
Preemptive scheduling
Shortest job first
First come First served
30. The systems which allow only one process execution at a time, are called
uniprogramming systems
uniprocessing systems
unitasking systems
None of the mentioned
31. Thread shares with other threads belonging to the same process its
thread id
program Counter
register set and stack
code section and data section
32. User threads
are supported above the kernel and are managed without kernel support
are supported below the kernel and are managed without kernel support
are supported above the kernel and are managed with kernel support
are supported below the kernel and are managed with kernel support
33. What is a long-term scheduler ?
It selects which process has to be brought into the ready queue

It selects which process has to be executed next and allocates CPU

It selects which process to remove from memory by swapping

None of these

34. What is a medium-term scheduler?

It selects which process has to be brought into the ready queue

It selects which process has to be executed next and allocates CPU

It selects which process to remove from memory by swapping

None of these

35. What is a short-term scheduler?

It selects which process has to be brought into the ready queue

It selects which process has to be executed next and allocates CPU

It selects which process to remove from memory by swapping

None of these

36. What is FIFO algorithm?

First executes the job that came in last in the queue

First executes the job that came in first in the queue

First executes the job that needs minimal processor

First executes the job that has maximum processor needs

37. What is the ready state of a process?

When process is scheduled to run after some execution

When process is unable to run until some task has been completed

When process is using the CPU

None of the mentioned

38. When the process issues an I/O request:

It is placed in an I/O queue

It is placed in a waiting queue
It is placed in the ready queue
It is placed in the Job queue
39. Which of the following algorithms tends to minimize the process flow time?
First come First served
Shortest Job First
Earliest Deadline First
Longest Job First
40. Which of the following is a criterion to evaluate a scheduling algorithm?
CPU Utilization: Keep CPU utilization as high as possible
Throughput: number of processes completed per unit time
Waiting Time: Amount of time spent ready to run but not running
All of the above
41. Which of the following is not the state of a process?
Blocked
Old
Ready
Running
42. Which of the following Multithreading model has drawback "that creating a user thread requires creating the corresponding kernel thread".
One to One
One to Many
Many to One
Many to Many

43. Which of the following Multithreading model maps many user-level threads to one kernel thread.
One to One
One to Many
Many to One
Many to Many
44. Which of the following Multithreading model multiplexes many user-level threads to a smaller or equal number of kernel threads?
One to One
One to Many
Many to One
Many to Many
45. Which of the following state transitions is not possible ?
Blocked to running
Ready to running
Blocked to ready
Running to blocked
46. Which state of a process defined "Instructions are being executed"
New
Ready
Running
Blocked
47. Which state of a process defined "The process has finished execution"
Exit
Ready
Running

Blocked
48. Which state of a process defined "The process is being created"
New
Ready
Running
Blocked
49. With round robin scheduling algorithm in a time shared system
using very large time slices converts it into First come First served scheduling algorithm
using very small time slices converts it into First come First served scheduling algorithm
using extremely small time slices increases performance
using very small time slices converts it into Shortest Job First algorithm
50. Which scheduling algorithm is non preemptive scheduling algorithm?
First come First served
Round Robin
Shortest Remaining Time Next
Preemptive Priority
51. Which scheduling algorithm is preemptive scheduling algorithm?
First come First served
Shortest job first
Shortest Remaining Time Next
Non Preemptive Priority
52. The interval from the time of submission of a process to the time of completion is termed as
waiting time

turnaround time
response time
throughput
53. In priority scheduling algorithm,
CPU is allocated to the process with highest priority
CPU is allocated to the process with lowest priority
Equal priority processes can not be scheduled
None of the mentioned
54. In preemptive priority scheduling algorithm, when a process arrives at the ready queue, its priority is compared with the priority of
all process
currently running process
parent process
init process
55. Time quantum is defined in
shortest job scheduling algorithm
priority scheduling algorithm
round robin scheduling algorithm
multilevel queue scheduling algorithm
56. A process is selected from the queue by the scheduler, to be executed.
blocked, short term
wait, long term
ready, short term
ready, long term

57. One of the disadvantages of the priority scheduling algorithm is that :
It schedules in a very complex manner
Its scheduling takes up a lot of time
It can lead to some low priority process waiting indefinitely for the CPU
None of these
58. Three CPU intensive processes requires 10, 20 and 30 time units and arrive at times 0, 2 and 6 respectively. The operating system implements a shortest remaining time next scheduling algorithm. Considering that the context switches at time zero and at the end are not counted the number of context switches are needed is
4
3
2
1
59. On a single processor four jobs are to be executed. At time t = (0) + (jobs arrive in the order of A, B, C, D). The burst CPU time requirements are 4, 1, 8, 1 time units respectively. Under Round Robin Scheduling with the time slice of 1 time unit the completion time of A is"
3
5
7
9
60 is a technique of improving the priority of process waiting in Queue for CPU allocation
Starvation
Ageing
Revocation
Relocation
61. Which of the following are the states of a five state process model? i) Running ii) Ready iii) New iv) Exit v) Destroy

i, ii, iii and v only	
i, ii, iv and v only	
i, ii, iii, and iv only	
All i, ii, iii, iv and v	
	Suspended process? i) The process is not immediately available for oved from suspended state automatically without removal order.
i only	
ii only	
i and ii both	
None of the above	
63. Following is/are the reasons for pr	ocess suspension.
Swapping parent process	
Interrupt request	
Timing	
All of the above	
64. In process scheduling,system.	determines when new processes are admitted to the
long term scheduling	
medium term scheduling	
short term scheduling	
None of the above	
minutes. Their priorities are 3,5,2,1 an	ne time. They have estimated running times 10,6,2,4 and 8 and 4 respectively with 5 being highest priority. In which sequence non preemptive priority scheduling algorithm.
ABCDE	
BEACD	

DCAEB	
EDCBA	
minutes. Their priorities are	rrive at same time. They have estimated running times 10,6,2,4 and 8 a 3,5,2,1 and 4 respectively with 5 being highest priority. In which sequence cute under shortest job first scheduling algorithm.
CDBEA	
ABCDE	
AEBDC	
EDCBA	
minutes. Their priorities are	rrive at same time. They have estimated running times 10,6,2,4 and 8 e 3,5,2,1 and 4 respectively with 5 being highest priority. In which sequence cute under first come first serve scheduling algorithm.
CDBEA	
ABCDE	
AEBDC	
EDCBA	
Their priorities are 3,5,2,1 a	rrive at 0,1,2,4,5. They have estimated running times 10,6,2,4 and 8 minutes. and 4 respectively with 5 being highest priority. In which sequence process ler round robin scheduling algorithm for quantum time=4.
ABCDE	
EDCBA	
ABCDEABEA	
ABCDEABEAB	
Their priorities are 3,2,1 an	nrrive at same time. They have estimated running times 10,6,2 and 8 minutes d 4 respectively with 4 being highest priority. Which process will get turn first we priority scheduling algorithm.

В

С			
D			

70. Four batch jobs A to D arrive at same time. They have estimated running times 10,6,2 and 8 minutes. Their priorities are 3,2,1 and 4 respectively with 4 being highest priority. Which process will get turn first to execute under shortest job first scheduling algorithm.

Α

В

C

D