- 1. Why does a process use Register?
 - a. To give the address of next line
 - b. To execute the Process
 - c. To save the data of previous process
 - d. None of the above.
- 2. Which Address has Page number and Page offset?
 - a. Page Address
 - b. Logical Address
 - c. Physical Address
 - d. Frame Address
- 3. Which of the below must always be equal?
 - a. Frame size and Process size
 - b. Process size and Frame size
 - c. Page size and Frame size
 - d. Page size and Process size
- 4. In addresses like logical and physical, the numbers are represented in
 - a. Binary
 - b. Decimal
 - c. Hexa- Decimal
 - d. Octal
- 5. What is throughput?
 - a. Performance by result
 - b. Output performance
 - c. Tasks that executed in a time
 - d. All of the above.
- 6. In which of the following the processes are not interrupted?
 - a. Short remaining time first
 - b. Long remaining time first
 - c. First come First serve
 - d. All of the following

PROCESS	ARRIVAL	BURST TIME
P1	0	1
P2	1	2
P3	2	3
P4	3	4

- 7. What is the arrival time of P4 in the Gantt Chart for the?
 - a. 3

	b.	4
	C.	5
	d.	6
8.	Wha a. <mark>b.</mark> c. d.	<mark>2</mark> 4
9.	How	many processes ha

- 9. How many processes have the waiting time as zero?
 - a. 0
 - b. 1
 - c. 2
 - d. 3
- 10. Which of the following is the disadvantage of demand paging?
 - a. Reduces memory requirement
 - b. High degree of multiprogramming
 - c. Page fault
 - d. All of the above
- 11. If the page fault has occurred then the OS will create?
 - a. Memory Access
 - b. Trap
 - c. Encryption
 - d. Decryption
- 12. What separates logical memory from physical memory?
 - a. Secondary memory
 - b. Main memory
 - c. Virtual memory
 - d. None of the above
- 13. OS will check for authentication when?
 - a. Page fault occurs
 - b. Demand paging
 - c. Degree of multiprogramming has decreased.
 - d. Degree of multiprogramming has increased.
- 14. EMAT = p (PFST) + (1-p) (access time of main memory). What does the p stands for?
 - a. Page fault
 - b. Page fault service
 - c. Probability of page fault
 - d. None of the above
- 15. If the page size increases, the internal fragmentation is also?
 - a. Decreases
 - b. Increases
 - c. Remains constant

b.	MAC
C.	Ms-Dos
d.	None of these
17.The	e size of virtual memory is based on which of the following?
a.	CPU
b.	RAM
C.	Address bus
d.	Data bus
18. W	hich of the following does not interrupt the running process?
a.	Timer interrupt
b.	Device
C.	Power failure
<mark>d.</mark>	Scheduler process
19. WI	hich of the following is an example of a Real Time Operating System?
a.	MAC
b.	MS-DOS
c.	Windows 10
d.	Process Control
20. WI	hich of the following is system software?
a.	Operating system
b.	Compiler
C.	Utilities

d. None of these

a. Windows

16. Which of the following is a single-user operating system?

d. All of the above

21.	What type of	scheduling	is round-	-robin s	cheduling?
-----	--------------	------------	-----------	----------	------------

- a. Linear data scheduling
- b. Non-linear data scheduling
- c. Preemptive scheduling
- d. Non-preemptive scheduling
- 22. Which of the following options is correct about the windows operating system?
 - a. Windows is a CUI operating system.
 - b. Windows is based on CUI.
 - c. Windows is a GUI operating system.
 - d. None of the these
- 23. Which of the following scheduling algorithms is preemptive scheduling?
 - a. FCFS Scheduling
 - b. SJF Scheduling
 - c. Network Scheduling
 - d. SRTF Scheduling
- 24. Which of the following operating systems does not require a command to run?
 - a. Kali Linux
 - b. Windows
 - c. Unix
 - d. All of the these

25. The operating system work between

- a. User and Computer
- b. Network and User
- c. One user to another user
- d. All of the these
- 26. What is the paging in the operating system?
 - a. Memory management scheme
 - b. Network management scheme
 - c. Internet management scheme
 - d. None of the these
- 27. Which of the following programs is loaded first when starting a computer?
 - a. Window desktop
 - b. Network connection program
 - c. Operating system
 - d. CMD
- 28. Which of the following scheduling algorithm is non-preemptive scheduling?
 - a. SJF scheduling
 - b. Round-Robin scheduling
 - c. SRTF scheduling
 - d. None of these.
- 29. Which of the following scheduling reduces process flow time?

a ⊢ı	CF	S
------	----	---

c. SJF

d. All of the these

Consider the following three processes in the FCFS.

PROCESS	ARRIVAL	BURST TIME
P1	3	3
P2	6	6
P3	9	9

30. What is the average waiting time?

- a. 2
- b. 3
- c. 4
- d. 5

31. What is the completion time of P3?

- a. 3
- b. 6
- c. 9
- d. 12

32. What is the average Turnaround Time?

	c.	12
	d.	15
00		
33	. In	which allocation method does the user size the file before creating the file?
	a.	Contiguous
		Linked
		Indexed
		None of the these
	u.	None of the these
34	Wh	ich of the following component does not belong to PCB (Process Control Block)?
	a.	CPU registers
	b.	CPU scheduling information
	C.	Operating System information
	d.	Accounting information
٥.	\ A / I	
35	. vvr	nich of the following methods is used to improve the main memory utilization?
	a	Swapping
		Operating system
		Memory stack
		None of these.
	u.	None of these.
36	. W	hich of the following operating systems supports only real-time applications?
	a.	Batch OS
		Distributed OS
	IJ.	

a. 9b. 10

C.	Real-time OS
d.	Network OS
37. Wh	ich of the following statements is correct about fragmentation?
a.	It is software that connects the OS.
b.	It is part of the software.
	Loss the memory
d.	All of the these
38. The	e PCB is identified by
a.	Real-Number
b.	Binary Number
	Store block
d.	Integer Process ID
39. Wh	ich of the following statements is correct about virtual memory?
	It is a combination of the logical-memory and physical-memory
· · · · ·	It is a separation of user logical memory and physical memory
C.	It is a virtual network memory

40. Who is responsible for keeping the process from the program?

a. Operating system

d. None of the these

b. CPU

41. Which one of the following can be handled by the OS?
a. Power failureb. Lack of paper in printerc. Connection Failure in the network.d. All of the above
42. A system which allows only one process execution at one time is called?
a. Uniprogrammingb. Uniprocessingc. Unitaskingd. None of the above
43. Contiguous memory Allocation is an allocation in which
a. Same process allocated in different memory areasb. All processes allocated in the same areac. Each process allocated to a single memory area
d. None of the above44. Contiguous memory Allocation has a disadvantage of
a. Memory fragmentationb. Page faultc. Less Throughputd. HRRN
45. In contiguous memory allocation has no cure.

c. Monitor

d. All of the these

a.	Intornal	troam	entation
1	шеша	Haum	ентапон

- b. External fragmentation
- c. Inline fragmentation
- d. Outline fragmentation

46. Compaction is used to overcome the problem of

a. External fragmentation

- b. Internal Fragmentation
- c. Page fault
- d. Swapping

47. A process can be of

- a. Single threaded
- b. Multi threaded
- c. Both
- d. None of the above

48. A process control block consists of

- a. Process ID
- b. Process State
- c. Registers
- d. All of the above
- 49. The ready queue is generally stored in the form of
 - a. Array

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- c. Linked list
- d. None of the above
- 50. The list of processes waiting for I/O device is
 - a. Device queue
 - b. Ready queue
 - c. Job queue
 - d. None of the above
- 51. A process swapped out of memory later swapped into memory by
 - a. Long term Scheduler
 - b. Medium Term Scheduler
 - c. Short term Scheduler
 - d. None of the above
- 52. Sometimes CPU switch from one process to another, that task is called
 - a. Context Switch
 - b. Fork child
 - c. System Call
 - d. None of the above
- 53. Memory Fragmentation results in
 - a. Stack overflow
 - b. Page fault
 - c. High utilization of memory
 - d. Poor utilization of memory

First Come First serve

PROCESS	ARRIVAL	BURST TIME
P1	0	1
P2	1	2
P3	2	3
P4	3	4

54.	Wł	nat is	s the	arrival	time	of P	4 in	the	Gantt	Chart	for	the?
	a.	3										

- b. 4
- D. 4
- c. 5
- 55. What is the TAT for P2?
 - a. 1
 - b. 2
 - c. 4
 - d. 7
- 56. How many processes have the waiting time as zero?
 - a. 0
 - b. 1
 - c. 2
 - d. 3
- 57. Virtual memory means
 - a. Creating extra memory
 - b. Storing in a secondary memory device
 - c. Creating an illusion
 - d. None of the above
- 58. Which of the following is the disadvantage of demand paging?
 - a. Reduces memory requirement
 - b. High degree of multiprogramming
 - c. Page fault
 - d. All of the above
- 59. If the page fault has occurred then the OS will create?
 - a. Memory Access
 - b. Trap
 - c. Encryption
 - d. Decryption
- 60. What separates logical memory from physical memory?
 - a. Secondary memory

61. OS will check for authentication when? a. Page fault occurs b. Demand paging	
c. Degree of multiprogramming has decreased.d. Degree of multiprogramming has increased.	
 62. EMAT = p (PFST) + (1-p) (access time of main memory). What does the p stands a. Page fault b. Page fault service c. Probability of page fault d. None of the above 	s for?
63. If the page size increases, the internal fragmentation is also? a. Decreases b. Increases c. Remains constant d. None of these	
64. Which of the following is a single-user operating system?	
a. Windowsb. MACc. Ms-Dosd. None of these	
65.The size of virtual memory is based on which of the following?	
a. CPU b. RAM c. Address bus	
d. Data bus	
66. Which of the following is not application software?	

b. Main memoryc. Virtual memoryd. None of the above

a. Windows 7b. WordPad

c. Photoshop

d. MS-excel	
67. Who provides the interface to access the services of the operating system?	
a. API	
b. System call	
c. Library	
d. Assembly instruction	
68. Where are placed the list of processes that are prepared to be executed and waiting	ıg?
a. Job queue	
b. Ready queue	
c. Execution queue	
d. Process queue	
69. Who among the following can block the running process?	
a. Fork	
b. Read	
c. Down	
d. All of these	
70. Which of the following statements is correct about fragmentation?	

a. It is software that connects the OS.

b. It is part of the software.

c. Loss the memory

71. The PCB is identified by
a. Real-Numberb. Binary Numberc. Store blockd. Integer Process ID
72. Which of the following statements is correct about virtual memory?
a. It is a combination of the logical-memory and physical-memory
b. It is a separation of user logical memory and physical memoryc. It is a virtual network memoryd. None of the these
73. Who is responsible for keeping the process from the program?
a. Operating systemb. CPUc. Monitord. All of the these
74. What gives the address of the next line of the code which has to be executed in the process?
 a. List of Open Files b. Process Number c. Process counter d. Register

d. All of the these

- 75. Why does a process use Register?
 - a. To give the address of next line
 - b. To execute the Process
 - c. To save the data of previous process
 - d. None of the above.
- 76. When two or more processes are ready to execute then what is that queue called?
 - a. Ready queue
 - b. Device Queue
 - c. Waiting Queue
 - d. All of the Above
- 77. What changes when the current activity of a process changes?
 - a. Process number
 - b. Process Counter
 - c. Process State
 - d. Process file
- 78. Where does the paging happen?
 - a. Secondary memory
 - b. Main memory
 - c. Both
 - d. None of the Above
- 79. Which Address has Page number and Page offset?
 - a. Page Address
 - b. Logical Address
 - c. Physical Address
 - d. Frame Address
- 80. Which of the below must always be equal?
 - a. Frame size and Process size
 - b. Process size and Frame size
 - c. Page size and Frame size
 - d. Page size and Process size
- 81. A process control block consists of
 - a. Process ID
 - b. Process State
 - c. Registers
 - d. All of the above
- 82. The ready queue is generally stored in the form of

a.	Array
b.	Stack
C.	Linked list
d.	None of the above
83. Tł	ne list of processes waiting for I/O device is
a.	Device queue

b. Ready queuec. Job queue

d. None of the above

84. A process swapped out of memory later swapped into memory by

- a. Long term Scheduler
- b. Medium Term Scheduler
- c. Short term Scheduler
- d. None of the above
- 85. Sometimes CPU switch from one process to another, that task is called
 - a. Context Switch
 - b. Fork child
 - c. System Call
 - d. None of the above
- 86. Memory Fragmentation results in
 - a. Stack overflow
 - b. Page fault
 - c. High utilization of memory

d. Poor utilization of memory

- 87. Which of the below must always be equal?
 - a. Frame size and Process size
 - b. Process size and Frame size
 - c. Page size and Frame size
 - d. Page size and Process size
- 88. In addresses like logical and physical, the numbers are represented in
 - a. Binary
 - b. Decimal
 - c. Hexa- Decimal
 - d. Octal
- 89. What is throughput?
 - a. Performance by result
 - b. Output performance
 - c. Tasks that executed in a time
 - d. All of the above.
- 90. Why is memory management restricted?
 - a. Main memory
 - b. Secondary memory
 - c. Memory division
 - d. None of the above
- 91. What are the tasks which are not handled by Storage management?
 - a. Secondary Devices
 - b. File System
 - c. Disk Architecture
 - d. API
- 92. Which of the following is not a function of the OS?
 - a. Management of Resources
 - b. Security
 - c. File Structure
 - d. Memory Management
- 93. What level of language is used in process management?
 - a. Low- level Language
 - b. Medium Level Language
 - c. High- Level Language
 - d. All of the above
- 94. What is the unit of execution within a process?
 - a. Deadlock
 - b. Thread
 - c. Segment
 - d. Page

 95. Where can we see the programs which are running in our system? a. Task manager b. Thread Explorer c. Process Manager d. None of the above
96.When does the process get interrupted? a. I/O wait b. Scheduler Dispatch c. Priority of process d. When the process is admitted to ready
97. Which scheduler leads to multiprogramming? a. Short term Scheduler b. Medium term Scheduler c. Long term Scheduler d. All of the Above
98. What is an additional state which occurred by the Medium Term scheduler? a. Schedule dispatch b. Wait c. Suspend Wait d. Schedule Wait
99. Which of the following share the same kind of data? a. Deadlocks b. Processes c. Registers d. Threads
 100. How many times does the fork child repeat the system calls? a. 2 ^ (n-1) b. 2^n c. 2^[n(n-1)] d. (2^n)-1
 101. In which of the following if the parent is blocked and it will never affect the child? a. Process b. Thread c. Counters d. Registers
 102. Which level of Thread is the integral part of the OS? a. User Level b. Kernel Level c. Machine level d. All of the above
103. Which level is faster?

a. User Levelb. Kernel Level

- c. Machine level
- d. All of the above

104. Which of the following is not a disadvantage of Fixed Partitioning?

- a. Internal fragmentation
- b. Limits process size
- c. Limit on degree of multiprogramming
- d. None of the above

105. Compaction can be done even though it's complicated?

- a. Fixed Partitioning
- b. Variable Partitioning
- c. Segmentation
- d. Paging

PROCESS	ARRIVAL	BURST TIME
P1	0	5
P2	1	4
P3	2	2
P4	4	1

(Round Robin)
Time Quantum = 2

	106.	How m	nany times	the	context	switching	is	happ	ening	۱?
--	------	-------	------------	-----	---------	-----------	----	------	-------	----

- a. 2
- b. 4
- c. 5
- d. 6

107. What is the completion time for P1?

- a. 5
- b. 7
- c. 10
- d. 12

108. What is the TAT for P4?

- a. 4
- b. 5
- c. 6
- d. 7

109. Virtual memory means

- a. Creating extra memory
- b. Storing in a secondary memory device
- c. Creating an illusion

- d. None of the above
- 110. Which of the following is the disadvantage of demand paging?
 - a. Reduces memory requirement
 - b. High degree of multiprogramming
 - c. Page fault
 - d. All of the above
- 111. If the page fault has occurred then the OS will create?
 - a. Memory Access
 - b. Trap
 - c. Encryption
 - d. Decryption
- 112. What separates logical memory from physical memory?
 - a. Secondary memory
 - b. Main memory
 - c. Virtual memory
 - d. None of the above
- 113. OS will check for authentication when?
 - a. Page fault occurs
 - b. Demand paging
 - c. Degree of multiprogramming has decreased.
 - d. Degree of multiprogramming has increased.
- 114. EMAT = p (PFST) + (1-p) (access time of main memory). What does the p stands for?
 - a. Page fault
 - b. Page fault service
 - c. Probability of page fault
 - d. None of the above
- 115. If the page size increases, the internal fragmentation is also?
 - a. Decreases
 - b. Increases
 - c. Remains constant
 - d. None of these
- 116. Which of the following is a single-user operating system?
 - a. Windows
 - b. MAC
 - c. Ms-Dos
 - d. None of these
- 117. What is the paging in the operating system?

- a. Memory management scheme
- b. Network management scheme
- c. Internet management scheme
- d. None of the these
- 118. Which of the following programs is loaded first when starting a computer?
 - a. Window desktop
 - b. Network connection program
 - c. Operating system
 - d. CMD
- 119. Which of the following scheduling algorithm is non-preemptive scheduling?
 - a. SJF scheduling
 - b. Round-Robin scheduling
 - c. SRTF scheduling
 - d. None of these.
- 120. Which of the following scheduling reduces process flow time?
 - a. FCFS
 - b. LIFO
 - c. SJF
 - d. All of the these

Consider the following three processes in the FCFS.

PROCESS	ARRIVAL	BURST TIME
	,	DOI TO THINK

P1	3	3
P2	6	6
P3	9	9

121.	What is	s the	average	waiting	time?
------	---------	-------	---------	---------	-------

_	2
Э	

b. 3

- c 4
- d. 5

122. What is the completion time of P3?

- a. 3
- b. 6
- c. 9
- d. 12

123. What is the average Turnaround Time?

- a. 9
- b. 10
- c. 12
- d. 15

124. In which allocation method does the user size the file before creating the file?

a. Contiguous

- b. Linkedc. Indexedd. None of the these
- 125. Which of the following component does not belong to PCB (Process Control Block)?
 - a. CPU registers
 - b. CPU scheduling information
 - c. Operating System information
 - d. Accounting information
- 126. Which of the following methods is used to improve the main memory utilization?
 - a. Swapping
 - b. Operating system
 - c. Memory stack
 - d. None of these.
- 127. Which of the following operating systems supports only real-time applications?
 - a. Batch OS
 - b. Distributed OS
 - c. Real-time OS
 - d. Network OS
- 128. Which of the following statements is correct about fragmentation?
 - a. It is software that connects the OS.
 - b. It is part of the software.
 - c. Loss the memory

	Real-Number
b.	Binary Number
c.	Store block
<mark>d.</mark>	Integer Process ID
130. V	Which of the following statements is correct about virtual memory?
100. 1	The following statements is somest about virtual memory.
a.	It is a combination of the logical-memory and physical-memory
b.	It is a separation of user logical memory and physical memory
C.	It is a virtual network memory
d.	None of the these
101 V	Who is responsible for keeping the process from the program?
131. V	viio is responsible for keeping the process from the program:
a.	
b.	Operating system CPU
_	Operating system
C.	Operating system CPU
C.	Operating system CPU Monitor
c. d.	Operating system CPU Monitor
c. d. 132. V	Operating system CPU Monitor All of the these Which one of the following can be handled by the OS?
c. d. 132. V	Operating system CPU Monitor All of the these Vhich one of the following can be handled by the OS? Power failure
c. d. 132. V a. b.	Operating system CPU Monitor All of the these Vhich one of the following can be handled by the OS? Power failure Lack of paper in printer
c. d. 132. V a. b. c.	Operating system CPU Monitor All of the these Which one of the following can be handled by the OS? Power failure Lack of paper in printer Connection Failure in the network.
c. d. 132. V a. b.	Operating system CPU Monitor All of the these Vhich one of the following can be handled by the OS? Power failure Lack of paper in printer
c. d. 132. V a. b. c.	Operating system CPU Monitor All of the these Which one of the following can be handled by the OS? Power failure Lack of paper in printer Connection Failure in the network.

d. All of the these

129. The PCB is identified by _____.

b. Uniprocessing			
c. Unitasking			
d. None of the above			
134. Contiguous memory Allocation is an allocation in which			
a. Same process allocated in different memory areas			
b. All processes allocated in the same area			
c. Each process allocated to a single memory area			
d. None of the above			
125 Osobious as an Allegation has a disadvantant of			
135. Contiguous memory Allocation has a disadvantage of			
a. Memory fragmentation			
b. Page fault			
c. Less Throughput			
d. HRRN			
136. In contiguous memory allocation has no cure.			
130. In configuous memory anocation has no cure.			
a. Internal fragmentation			
b. External fragmentation			
c. Inline fragmentation			
d. Outline fragmentation			
137. Compaction is used to overcome the problem of			
a. External fragmentation			

133. A system which allows only one process execution at one time is called?

a. Uniprogramming

	b.	Internal Fragmentation
	C.	Page fault
	d.	Swapping
100		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
138	5. A	process can be of
	a.	Single threaded
	b.	Multi threaded
	C.	Both
		None of the above
139). A	process control block consists of
	0	Process ID
		Process State
		Registers
	d.	All of the above
1 40	, TI	a a war du au au a i a a a a a a a llu atawa d in tha fawar af
140	J. II	he ready queue is generally stored in the form of
1 10	,. II	ne ready quede to generally otored in the form of

141. The list of processes waiting for I/O device is

a. Device queue

a. Arrayb. Stack

c. Linked list

d. None of the above

b. Ready queue

- c. Job queue
- d. None of the above

142. A process swapped out of memory later swapped into memory by

- a. Long term Scheduler
- b. Medium Term Scheduler
- c. Short term Scheduler
- d. None of the above

143. Sometimes CPU switch from one process to another, that task is called

- a. Context Switch
- b. Fork child
- c. System Call
- d. None of the above

144. Memory Fragmentation results in

- a. Stack overflow
- b. Page fault
- c. High utilization of memory
- d. Poor utilization of memory

PROCESS	ARRIVAL	BURST TIME
P1	0	5
P2	1	4
P3	2	2

P4	4	1			
(Round Robin) Time Quantum = 2					
145. How many times the context switching is happening? a. 2 b. 4					
c. 5 <mark>d. 6</mark>					

146. What is the completion time for P1?

- a. 5
- b. 7
- c. 10
- d. 12

147. What is the TAT for P4?

- a. 4
- b. 5
- c. 6
- d. 7

148. Who among the following can block the running process?

- a. Fork
- b. Read
- c. Down
- d. All of these

149. Which of the following does not interrupt the running process?

- a. Timer interrupt
- b. Device
- c. Power failure
- d. Scheduler process

150. Which of the following is an example of a Real Time Operating System?
a. MACb. MS-DOSc. Windows 10d. Process Control
151. Which of the following is system software?
a. Operating systemb. Compilerc. Utilitiesd. All of the above
152. What type of scheduling is round-robin scheduling?
 a. Linear data scheduling b. Non-linear data scheduling c. Preemptive scheduling d. Non-preemptive scheduling
153. Which of the following options is correct about the windows operating system
 a. Windows is a CUI operating system. b. Windows is based on CUI. c. Windows is a GUI operating system.
d. None of the these

154. Which of the following scheduling algorithms is preemptive scheduling?

- a. FCFS Scheduling
- b. SJF Scheduling

- c. Network Scheduling
- d. SRTF Scheduling
- 155. Which of the following operating system does not require a command to run?
 - a. Kali Linux
 - b. Windows
 - c. Unix
 - d. All of the these
- 156. The operating system work between
 - a. User and Computer
 - b. Network and User
 - c. One user to another user
 - d. All of the these
- 157. What is the paging in the operating system?
 - a. Memory management scheme
 - b. Network management scheme
 - c. Internet management scheme
 - d. None of the these
- 158. Which of the following programs is loaded first when starting a computer?
 - a. Window desktop
 - b. Network connection program
 - c. Operating system
 - d. CMD

159. Which of the following scheduling algorithms is non-preemptive scheduling?

- a. SJF scheduling
- b. Round-Robin scheduling
- c. SRTF scheduling
- d. None of these.

160. Contiguous memory Allocation is an allocation in which

- a. Same process allocated in different memory areas
- b. All processes allocated in the same area
- c. Each process allocated to a single memory area
- d. None of the above