Memory Management

1. What is Address Binding?
a) going to an address in memory
b) locating an address with the help of another address
c) binding two addresses together to form a new address in a different memory space
d) a mapping from one address space to another
View Answer
2. Binding of instructions and data to memory addresses can be done at
a) Compile time
b) Load time
c) Execution time
d) All of the mentioned
View Answer
3. If the process can be moved during its execution from one memory segment to another
then binding must be
a) delayed until run time
b) preponed to compile time
c) preponed to load time
d) none of the mentioned
4. What is Dynamic loading?
a) loading multiple routines dynamically
b) loading a routine only when it is called
c) loading multiple routines randomly
d) none of the mentioned
a) none of the mentioned
5. What is the advantage of dynamic loading?
a) A used routine is used multiple times
b) An unused routine is never loaded
c) CPU utilization increases
d) All of the mentioned
a) / th of the members
6. The idea of overlays is to
a) data that are needed at any given time
b) enable a process to be larger than the amount of memory allocated to it
c) keep in memory only those instructions
d) all of the mentioned
View Answer
7. The must design and program the overlay structure.
a) programmer
b) system architect
c) system designer
d) none of the mentioned
8. The swaps processes in and out of the memory.
a) Memory manager

- b) CPU
- c) CPU manager
- d) User

View Answer

- 9. If a higher priority process arrives and wants service, the memory manager can swap out the lower priority process to execute the higher priority process. When the higher priority process finishes, the lower priority process is swapped back in and continues execution. This variant of swapping is sometimes called?
- a) priority swapping
- b) pull out, push in
- c) roll out, roll in
- d) none of the mentioned

View Answer

- 10. If binding is done at assembly or load time, then the process _____ be moved to different locations after being swapped out and in again.
- a) can
- b) must
- c) can never
- d) may
- 11. In a system that does not support swapping _____
- a) the compiler normally binds symbolic addresses (variables) to relocatable addresses
- b) the compiler normally binds symbolic addresses to physical addresses
- c) the loader binds relocatable addresses to physical addresses
- d) binding of symbolic addresses to physical addresses normally takes place during execution

View Answer

- 12. Which of the following is TRUE?
- a) Overlays are used to increase the size of physical memory
- b) Overlays are used to increase the logical address space
- c) When overlays are used, the size of a process is not limited to the size of the physical memory
- d) Overlays are used whenever the physical address space is smaller than the logical address space
- 1. The address generated by the CPU is referred to as ______
- a) Physical address
- b) Logical address
- c) Neither physical nor logical
- d) None of the mentioned

View Answer

- 2. The address loaded into the memory address register of the memory is referred to as
- a) Physical address
- b) Logical address
- c) Neither physical nor logical

d) None of the mentioned View Answer 3. The run time mapping from virtual to physical addresses is done by a hardware device called the a) Virtual to physical mapper b) Memory management unit c) Memory mapping unit d) None of the mentioned
4. The base register is also known as the a) basic register b) regular register c) relocation register d) delocation register View Answer 5. The size of a process is limited to the size of a) physical memory b) external storage c) secondary storage d) none of the mentioned
6. If execution time binding is being used, then a process be swapped to a different memory space. a) has to be b) can never c) must d) may View Answer 7. Swapping requires a a) motherboard b) keyboard c) monitor d) backing store View Answer 8. The backing store is generally a a) fast disk
a) fast disk b) disk large enough to accommodate copies of all memory images for all users c) disk to provide direct access to the memory images d) all of the mentioned View Answer 9. The consists of all processes whose memory images are in the backing store or in memory and are ready to run. a) wait queue b) ready queue c) cpu d) secondary storage View Answer

 10. The time in a swap out of a running process and swap in of a new process into the memory is very high. a) context – switch b) waiting c) execution d) all of the mentioned
View Answer
11. The major part of swap time is time. a) waiting
b) transfer
c) execution
d) none of the mentioned
View Answer 12. Swapping be done when a process has pending I/O, or has to execute I/O
operations only into operating system buffers.
a) must
b) can
c) must never d) maybe
View Answer
13. Swap space is allocated
a) as a chunk of disk
b) separate from a file system c) into a file system
d) all of the mentioned
CPU fetches the instruction from memory according to the value of a) program counter b) status register c) instruction register
d) program status word View Answer
A memory buffer used to accommodate a speed differential is called
a) stack pointer
b) cache
c) accumulator d) disk buffer
View Answer
3. Which one of the following is the address generated by CPU?
a) physical address
b) absolute address c) logical address
d) none of the mentioned
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4. Run time mapping from virtual to physical address is done bya) Memory management unitb) CPU

c) PCI d) None of the mentioned View Answer 5. Memory management technique in which system stores and retrieves data from secondary storage for use in main memory is called? a) fragmentation b) paging c) mapping d) none of the mentioned
6. The address of a page table in memory is pointed by
1. The main memory accommodates a) operating system b) cpu c) user processes d) all of the mentioned View Answer

2. What is the operating system?
a) in the low memory
b) in the high memoryc) either low or high memory (depending on the location of interrupt vector)
d) none of the mentioned
View Answer
3. In contiguous memory allocation
a) each process is contained in a single contiguous section of memory
b) all processes are contained in a single contiguous section of memory
c) the memory space is contiguous
d) none of the mentioned
4. The relocation register helps in
a) providing more address space to processes
b) a different address space to processes
c) to protect the address spaces of processes
d) none of the mentioned
View Answer
5. With relocation and limit registers, each logical address must be the limit
register.
a) less than
b) equal to
c) greater than
d) none of the mentioned
6. The operating system and the other processes are protected from being modified by an
already running process because
a) they are in different memory spaces
b) they are in different logical addresses
c) they have a protection algorithm
d) every address generated by the CPU is being checked against the relocation and limit
registers
View Answer
7. Transient operating system code is code that
a) is not easily accessible
b) comes and goes as needed c) stays in the memory always
d) never enters the memory space
View Answer
8. Using transient code, the size of the operating system during program
execution.
a) increases
b) decreases
c) changes
d) maintains
View Answer

9. When memory is divided into several fixed sized partitions, each partition may contain
a) exactly one process b) at least one process c) multiple processes at once d) none of the mentioned View Answer
 10. In fixed size partition, the degree of multiprogramming is bounded by a) the number of partitions b) the CPU utilization c) the memory size d) all of the mentioned
View Answer 11. The first fit, best fit and worst fit are strategies to select a a) process from a queue to put in memory b) processor to run the next process c) free hole from a set of available holes
d) all of the mentioned
 1. In internal fragmentation, memory is internal to a partition and a) is being used b) is not being used c) is always used d) none of the mentioned View Answer
2. A solution to the problem of external fragmentation is a) compaction b) larger memory space c) smaller memory space
d) none of the mentioned View Answer 3. Another solution to the problem of external fragmentation problem is to a) permit the logical address space of a process to be noncontiguous b) permit smaller processes to be allocated memory at last c) permit larger processes to be allocated memory at last
d) all of the mentioned 4. If relocation is static and is done at assembly or load time, compaction
a) cannot be done b) must be done c) must not be done d) can be done View Answer
5. The disadvantage of moving all process to one end of memory and all holes to the other direction, producing one large hole of available memory isa) the cost incurred b) the memory used

c) the CPU used d) all of the mentioned	
6 is generally faster than and a) first fit, best fit, worst fit b) best fit, first fit, worst fit c) worst fit, best fit, first fit d) none of the mentioned View Answer 7. External fragmentation exists when? a) enough total memory exists to satisfy a request but it is not contiguous b) the total memory is insufficient to satisfy a request c) a request cannot be satisfied even when the total memory is free d) none of the mentioned View Answer 8. External fragmentation will not occur when? a) first fit is used b) best fit is used c) worst fit is used d) no matter which algorithm is used, it will always occur View Answer 9. Sometimes the overhead of keeping track of a hole might be a) larger than the memory b) larger than the hole itself c) very small d) all of the mentioned	
View Answer 10. When the memory allocated to a process is slightly larger than the process, the	en
a) internal fragmentation occurs b) external fragmentation occurs c) both internal and external fragmentation occurs d) neither internal nor external fragmentation occurs	<i>7</i> 11
1. Physical memory is broken into fixed-sized blocks called a) frames b) pages c) backing store d) none of the mentioned View Answer 2. Logical memory is broken into blocks of the same size called a) frames b) pages c) backing store d) none of the mentioned View Answer	

 3. Every address generated by the CPU is divided into two parts. They are
4. The is used as an index into the page table. a) frame bit b) page number c) page offset d) frame offset View Answer 5. The table contains the base address of each page in physical memory. a) process b) memory c) page d) frame
6. The size of a page is typically a) varied b) power of 2 c) power of 4 d) none of the mentioned View Answer 7. If the size of logical address space is 2 to the power of m, and a page size is 2 to the power of n addressing units, then the high order bits of a logical address designate the page number, and the low order bits designate the page offset. a) m, n b) n, m c) m - n, m
d) m – n, n View Answer 8. With paging there is no fragmentation. a) internal b) external c) either type of d) none of the mentioned View Answer 9. The operating system maintains a table that keeps track of how many frames have been allocated, how many are there, and how many are available. a) page b) mapping c) frame
c) frame d) memory View Answer 10. Paging increases the time. a) waiting

b) execution	
c) context – switch	
d) all of the mentioned	
View Answer	
11. Smaller page tables are implemented as a set of	
a) queues	
b) stacks	
c) counters	
d) registers	
View Answer	
12. The page table registers should be built with	
a) very low speed logic	
b) very high speed logic	
c) a large memory space	
d) none of the mentioned	
View Answer	
13. For larger page tables, they are kept in main memory and a	points to the
page table.	
a) page table base register	
b) page table base pointer	
c) page table register pointer	
d) page table base	
View Answer	
14. For every process there is a	
a) page table	
b) copy of page table	
c) pointer to page table	
d) all of the mentioned	
View Answer	
15. Time taken in memory access through PTBR is	
a) extended by a factor of 3	
b) extended by a factor of 2	
c) slowed by a factor of 3	
d) slowed by a factor of 2	
Each entry in a translation lookaside buffer (TLB) consists of	
a) key	
b) value	
c) bit value	
d) constant	
View Answer	
2. If a page number is not found in the TLB, then it is known as a	
a) TLB miss	
b) Buffer miss	
c) TLB hit	
d) All of the mentioned	
View Answer	

 3. An uniquely identifies processes and is used to provide address space protection for that process. a) address space locator b) address space identifier c) address process identifier d) none of the mentioned
4. The percentage of times a page number is found in the TLB is known as a) miss ratio b) hit ratio c) miss percent d) none of the mentioned View Answer 5. Memory protection in a paged environment is accomplished by a) protection algorithm with each page b) restricted access rights to users c) restriction on page visibility d) protection bit with each page
a) is in the TLB b) has data in it c) is in the process's logical address space d) is the system's physical address space View Answer 7. Illegal addresses are trapped using the bit. a) error b) protection c) valid – invalid d) access View Answer 8. When there is a large logical address space, the best way of paging would be
a) not to page b) a two level paging algorithm c) the page table itself d) all of the mentioned View Answer 9. In a paged memory, the page hit ratio is 0.35. The required to access a page in secondary memory is equal to 100 ns. The time required to access a page in primary memory is 10 ns. The average time required to access a page is? a) 3.0 ns b) 68.0 ns c) 68.5 ns d) 78.5 ns View Answer

10. To obtain better memory utilization, dynamic loading is used. With dynamic loading, a
routine is not loaded until it is called. For implementing dynamic loading
a) special support from hardware is required
b) special support from operating system is essential
c) special support from both hardware and operating system is essential
d) user programs can implement dynamic loading without any special support from
hardware or operating system
View Answer
11. In paged memory systems, if the page size is increased, then the internal fragmentation
generally
a) becomes less
b) becomes more
c) remains constant
d) none of the mentioned
1. In segmentation, each address is specified by
a) a segment number & offset
b) an offset & value
c) a value & segment number
d) a key & value
View Answer
2. In paging the user provides only which is partitioned by the hardware into and
a) one address, page number, offset
b) one offset, page number, address
c) page number, offset, address
d) none of the mentioned
View Answer
3. Each entry in a segment table has a
a) segment base
b) segment peak
c) segment value
d) none of the mentioned
4. The segment base contains the
a) starting logical address of the process
b) starting physical address of the segment in memory
c) segment length
d) none of the mentioned
View Answer
5. The segment limit contains the
a) starting logical address of the process
b) starting physical address of the segment in memory
c) segment length
d) none of the mentioned

6. The offset 'd' of the logical address must be
a) greater than segment limit
b) between 0 and segment limit
c) between 0 and the segment number
d) greater than the segment number
View Answer
7. If the offset is legal
a) it is used as a physical memory address itself
b) it is subtracted from the segment base to produce the physical memory address
c) it is added to the segment base to produce the physical memory address
d) none of the mentioned
View Answer
8. When the entries in the segment tables of two different processes point to the same
physical location
a) the segments are invalid
b) the processes get blocked
c) segments are shared
d) all of the mentioned
View Answer
9. The protection bit is 0/1 based on
a) write only
b) read only
c) read – write
d) none of the mentioned
View Answer
10. If there are 32 segments, each of size 1Kb, then the logical address should have
a) 13 bits
b) 14 bits
c) 15 bits
d) 16 bits
View Answer
11. Consider a computer with 8 Mbytes of main memory and a 128K cache. The cache block size is 4 K. It uses a direct mapping scheme for cache management. How many
different main memory blocks can map onto a given physical cache block? a) 2048
b) 256
c) 64
, and the second
d) 8
View Answer
12. A multilevel page table is preferred in comparison to a single level page table for
translating virtual address to physical address because
a) it reduces the memory access time to read or write a memory location
b) it helps to reduce the size of page table needed to implement the virtual address space of
a process
c) it is required by the translation lookaside buffer
d) it helps to reduce the number of page faults in page replacement algorithms

Virtual Memory

1. Because of virtual memory, the memory can be shared among
a) processes
b) threads
c) instructions
d) none of the mentioned
View Answer
2 is the concept in which a process is copied into the main memory from the
secondary memory according to the requirement.
a) Pagingb) Demand paging
c) Segmentation
d) Swapping
View Answer
3. The pager concerns with the
a) individual page of a process
b) entire process
c) entire thread
d) first page of a process
a) mot page of a process
4. Swap space exists in
a) primary memory
b) secondary memory
c) cpu
d) none of the mentioned
View Answer
5. When a program tries to access a page that is mapped in address space but not loaded
in physical memory, then
a) segmentation fault occurs
b) fatal error occurs
c) page fault occurs
d) no error occurs
6. Effective access time is directly proportional to
a) page-fault rate
b) hit ratio
c) memory access time d) none of the mentioned
View Answer 7. In FIFO page replacement algorithm, when a page must be replaced.
7. In FIFO page replacement algorithm, when a page must be replaceda) oldest page is chosen
b) newest page is chosen
c) random page is chosen
d) none of the mentioned
View Answer

8. Which algorithm chooses the page that has not been used for the longest period of time whenever the page required to be replaced? a) first in first out algorithm b) additional reference bit algorithm c) least recently used algorithm d) counting based page replacement algorithm View Answer 9. A process is thrashing if a) it is spending more time paging than executing b) it is spending less time paging than executing c) page fault occurs d) swapping can not take place View Answer 10. Working set model for page replacement is based on the assumption of
a) modularity b) locality c) globalization d) random access
1. Virtual memory allows a) execution of a process that may not be completely in memory b) a program to be smaller than the physical memory c) a program to be larger than the secondary storage d) execution of a process without being in physical memory View Answer 2. The instruction being executed, must be in a) physical memory b) logical memory c) physical & logical memory d) none of the mentioned View Answer 3. Error handler codes, to handle unusual errors are a) almost never executed b) executed very often c) executed periodically d) none of the mentioned 4. The ability to execute a program that is only partially in memory has benefits like
a) The amount of physical memory cannot put a constraint on the program b) Programs for an extremely large virtual space can be created c) Throughput increases d) All of the mentioned View Answer 5. In virtual memory. the programmer of overlays. a) has to take care b) does not have to take care c) all of the mentioned d) none of the mentioned

6. Virtual memory is normally impleme	nted by
a) demand paging	
b) buses	
c) virtualization	
d) all of the mentioned View Answer	
	a mara complay than naga raple coment algorithms
because	e more complex than page replacement algorithms
a) Segments are better than pages	
b) Pages are better than segments	
c) Segments have variable sizes	
d) Segments have fixed sizes	
View Answer	
	whereas the pager is concerned with individual
of a process.	
a) the entire process, parts	
b) all the pages of a process, segment	S
c) the entire process, pages	
d) none of the mentioned	
View Answer	
9. Using a pager	
a) increases the swap time	
b) decreases the swap time	of alternational resources and add
c) decreases the swap time & amount	
d) increases the amount of physical moview Answer	emory needed
10. The valid – invalid bit, in this case,	when valid indicates?
a) the page is not legal	when valid indicates:
b) the page is illegal	
c) the page is in memory	
d) the page is not in memory	
View Answer	
11. A page fault occurs when?	
a) a page gives inconsistent data	
b) a page cannot be accessed due to it	ts absence from memory
c) a page is invisible	
d) all of the mentioned	
View Answer	
12. When a page fault occurs, the state	e of the interrupted process is
a) disrupted	
b) invalid	
c) saved	
d) none of the mentioned View Answer	
13. When a process begins execution	with no pages in memory?
a) process execution becomes imposs	
b) a page fault occurs for every page b	
c) process causes system crash	

d) none of the mentioned View Answer 14. If the memory access time is denoted by 'ma' and 'p' is the probability of a page fault (0 <= p <= 1). Then the effective access time for a demand paged memory is a) p x ma + (1-p) x page fault time b) ma + page fault time c) (1-p) x ma + p x page fault time d) none of the mentioned View Answer 15. When the page fault rate is low a) the turnaround time increases b) the effective access time increases c) the effective access time decreases d) turnaround time & effective access time increases View Answer 16. Locality of reference implies that the page reference being made by a process a) will always be to the page used in the previous page reference b) is likely to be one of the pages used in the last few page references c) will always lead to page faults
 Which of the following page replacement algorithms suffers from Belady's Anomaly? Optimal replacement LRU FIFO Both optimal replacement and FIFO View Answer A process refers to 5 pages, A, B, C, D, E in the order: A, B, C, D, A, B, E, A, B, C, D, E. If the page replacement algorithm is FIFO, the number of page transfers with an empty internal store of 3 frames is? a) 8 b) 10 c) 9 d) 7
3. A process refers to 5 pages, A, B, C, D, E in the order: A, B, C, D, A, B, E, A, B, C, D, E. If the page replacement algorithm is FIFO, the number of page frames is increased to 4, then the number of page transfers a) decreases b) increases c) remains the same d) none of the mentioned 4. A memory page containing a heavily used variable that was initialized very early and is in constant use is removed, then the page replacement algorithm used is a) LRU b) LFU

- c) FIFO
- d) None of the mentioned

View Answer

- 5. A virtual memory system uses First In First Out (FIFO) page replacement policy and allocates a fixed number of frames to a process. Consider the following statements.
- P : Increasing the number of page frames allocated to a process sometimes increases the page fault rate
- Q : Some programs do not exhibit locality of reference

Which of the following is TRUE?

- a) Both P and Q are true, and Q is the reason for P
- b) Both P and Q are true, but Q is not the reason for P

11. What is the Optimal page – replacement algorithm?a) Replace the page that has not been used for a long timeb) Replace the page that has been used for a long time

- c) P is false but Q is true
- d) Both P and Q are false

6. Users that their processes are running on a paged system.
a) are aware
b) are unaware
c) may unaware
d) none of the mentioned
View Answer
7. If no frames are free, page transfer(s) is/are required.
a) one
b) two
c) three
d) four
View Answer
8. When a page is selected for replacement, and its modify bit is set
a) the page is clean
b) the page has been modified since it was read in from the disk
c) the page is dirty
d) the page has been modified since it was read in from the disk & page is dirty
View Answer
9. The aim of creating page replacement algorithms is to
a) replace pages faster
b) increase the page fault rate
c) decrease the page fault rate
d) to allocate multiple pages to processes
View Answer
10. A FIFO replacement algorithm associates with each page the
a) time it was brought into memory
b) size of the page in memory
c) page after and before it
d) all of the mentioned
View Answer

c) Replace the page that will not be used for a long time d) None of the mentioned View Answer
12. Optimal page – replacement algorithm is difficult to implement, becausea) it requires a lot of information b) it requires future knowledge of the reference string
c) it is too complex d) it is extremely expensive View Answer
13. LRU page – replacement algorithm associates with each page the a) time it was brought into memory b) the time of that page's last use c) page after and before it d) all of the mentioned View Answer
14. For 3 page frames, the following is the reference string:
7 0 1 2 0 3 0 4 2 3 0 3 2 1 2 0 1 7 0 1 How many page faults does the LRU page replacement algorithm produce?
a) 10 b) 15 c) 11 d) 12 View Answer
15. What are the two methods of the LRU page replacement policy that can be implemented in hardware? a) Counters
b) RAM & Registers c) Stack & Counters d) Registers
1. When using counters to implement LRU, we replace the page with the a) smallest time value b) largest time value c) greatest size
d) none of the mentioned
View Answer 2. In the stack implementation of the LRU algorithm, a stack can be maintained in a manner
a) whenever a page is used, it is removed from the stack and put on bottom
b) the bottom of the stack is the LRU page c) the top of the stack contains the LRU page and all new pages are added to the top d) none of the mentioned View Answer
3. There is a set of page replacement algorithms that can never exhibit Belady's Anomaly, called
a) queue algorithms b) stack algorithms

c) string algorithms d) none of the mentioned
4. Applying the LRU page replacement to the following reference string. 1 2 4 5 2 1 2 4
The main memory can accommodate 3 pages and it already has pages 1 and 2. Page 1 came in before page 2. How many page faults will occur? a) 2 b) 3
c) 4
d) 5 View Answer
5. Increasing the RAM of a computer typically improves performance because
a) Virtual memory increases b) Larger RAMs are faster c) Fewer page faults occur d) None of the mentioned
6. The essential content(s) in each entry of a page table is/area) Virtual page number b) Page frame number
c) Both virtual page number and page frame number
d) Access right information View Answer
7. The minimum number of page frames that must be allocated to a running process in a virtual memory environment is determined by a) the instruction set architecture b) page size
c) physical memory size
d) number of processes in memory View Answer
8. What is the reason for using the LFU page replacement algorithm? a) an actively used page should have a large reference count b) a less used page has more chances to be used again
c) it is extremely efficient and optimal
d) all of the mentioned View Answer
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- 9. What is the reason for using the MFU page replacement algorithm? a) an actively used page should have a large reference count b) a less used page has more chances to be used again

- c) it is extremely efficient and optimal d) all of the mentioned

View Answer

10. The implementation of the LFU and the MFU algorithm is very uncommon because

a) they are too complicatedb) they are optimalc) they are expensived) all of the mentioned
1. The minimum number of frames to be allocated to a process is decided by the
a) the amount of available physical memory b) operating System c) instruction set architecture d) none of the mentioned View Answer 2. When a page fault occurs before an executing instruction is complete if a) the instruction must be restarted b) the instruction must be ignored c) the instruction must be completed ignoring the page fault
d) none of the mentioned View Answer 3. Consider a machine in which all memory reference instructions have only one memory address, for them we need at least frame(s). a) one b) two c) three d) none of the mentioned
4. The maximum number of frames per process is defined by a) the amount of available physical memory b) operating System c) instruction set architecture d) none of the mentioned View Answer 5. The algorithm in which we split m frames among n processes, to give everyone an equal share, m/n frames is known as a) proportional allocation algorithm b) equal allocation algorithm c) split allocation algorithm d) none of the mentioned
6. The algorithm in which we allocate memory to each process according to its size is known as a) proportional allocation algorithm b) equal allocation algorithm c) split allocation algorithm d) none of the mentioned View Answer 7. With either equal or proportional algorithm, a high priority process is treated a low priority process.

a) greater than
b) same as
c) lesser than
d) none of the mentioned
View Answer
8 replacement allows a process to select a replacement frame from the set of
all frames, even if the frame is currently allocated to some other process.
a) Local
b) Universal
c) Global
d) Public
View Answer
9 replacement allows each process to only select from its own set of allocated
frames.
a) Local
b) Universal
c) Global
d) Public
View Answer
10. One problem with the global replacement algorithm is that
a) it is very expensive
b) many frames can be allocated to a process
c) only a few frames can be allocated to a process
d) a process cannot control its own page – fault rate
View Answer
11 replacement generally results in greater system throughput.
a) Local
b) Global
c) Universal
d) Public
1. A process is thrashing if
a) it spends a lot of time executing, rather than paging
b) it spends a lot of time executing, rather than paging
c) it has no memory allocated to it
d) none of the mentioned
View Answer
2. Thrashing the CPU utilization.
a) increases
b) keeps constant
c) decreases
d) none of the mentioned
View Answer
3. What is a locality?
a) a set of pages that are actively used together
b) a space in memory

c) an area near a set of processes d) none of the mentioned
4. When a subroutine is called a) it defines a new locality b) it is in the same locality from where it was called c) it does not define a new locality d) none of the mentioned View Answer 5. A program is generally composed of several different localities, which overlap. a) may b) must c) do not d) must not
6. In the working set model, for: 2 6 1 5 7 7 7 7 5 1 6 2 3 4 1 2 3 4 4 4 3 4 3 4 4 4 1 3 2 3 if DELTA = 10, then the working set at time t1 (7 5 1) is? a) {1, 2, 4, 5, 6} b) {2, 1, 6, 7, 3} c) {1, 6, 5, 7, 2} d) {1, 2, 3, 4, 5} View Answer 7. The accuracy of the working set depends on the selection of a) working set model b) working set size c) memory size d) number of pages in memory View Answer 8. If working set window is too small a) it will not encompass entire locality b) it may overlap several localities c) it will cause memory problems d) none of the mentioned View Answer 9. If working set window is too large a) it will not encompass entire locality b) it may overlap several localities c) it will cause memory problems d) none of the mentioned View Answer 9. If working set window is too large a) it will cause memory problems d) none of the mentioned View Answer 10. If the sum of the working – set sizes increases, exceeding the total number of available
frames a) then the process crashes b) the memory overflows c) the system crashes

d) the operating system selects a process to suspend View Answer 11. Consider the following page reference string. 1 2 3 4 2 1 5 6 2 1 2 3 7 6 3 2 1 2 3 6 For LRU page replacement algorithm with 4 frames, the number of page faults is? a) 10 b) 14 c) 8 d) 11
View Answer 12. Consider the following page reference string.
12342156212376321236
For LRU page replacement algorithm with 5 frames, the number of page faults is? a) 10
b) 14
c) 8
d) 11 View Answer
13. Consider the following page reference string.
12342156212376321236
For FIFO page replacement algorithms with 3 frames, the number of page faults is?
a) 16 b) 15
c) 14
d) 11
View Answer
14. Consider the following page reference string. 1 2 3 4 2 1 5 6 2 1 2 3 7 6 3 2 1 2 3 6
For FIFO page replacement algorithms with 4 frames, the number of page faults is?
a) 16
b) 15
c) 14
d) 11 View Answer
15. Consider the following page reference string.
12342156212376321236
For Optimal page replacement algorithms with 3 frames, the number of page faults is?
a) 16 b) 15
c) 14
d) 11