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Exam : 000-234

Title : AIX 5L Performance and Systems Tuning

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QUESTION 1:

A system administrator would like to set a system to reboot after a crash. What is the best way to do this?

- A. smit chgsys
- B. bosboot
- C. smit dump
- D. bootlist -r

Answer: A

Explanation: The correct answer is smit chgsys. This allows you to Change/Show the characteristics of the system via smit fastpath chgsys. Alternatively, the command line method to setup automatic reboot after a system crash is: 'chdev -l sys0 -a autorestart=true'. Note that the default setting is to automatically reboot the system after a crash. See the bosboot man page and the smit chgsys fastpath.

Not B: The bosboot command merely creates and stores a boot image file so the machine finds the operating system kernel when it needs to start. Configuring the system to reboot automatically (or not) after a crash involves changing a specific parameter of the Operating System.

QUESTION 2:

After issuing the nfsstat -rs command, the null received column starts to grow. This indicates which of the following conditions?

- A. Not enough NFS daemons running
- B. Too many NFS daemons running
- C. nfs_tcp_socketsize is too small
- D. nfs_tcp_socketsize is too large

Answer: B

QUESTION 3:

Which of the following commands is run to adjust the number of free paging-space pages at which AIX begins killing processes?

- A. schedtune
- B. rmss
- C. rmps
- D. vmtune

Answer: B

Explanation: The correct answer is vmtune. The command vmtune -k xx sets the number of paging space pages at which processes begin to be killed.

See the man pages for rmss and vmtune. Another way of setting the free paging space pages at which aix begins killing processes is vmo -o npskill xx. This is the command vmtune uses behind the scenes.

Not B: The rmss command is used to simulate a system with various sizes of memory. It does not have the capability to adjust free paging space pages at which AIX kills processes.

QUESTION 4:

Page replacements algorithm steals file pages only when percent of RAM occupied by filepages

- A. falls below minperm.
- B. is between minperm and maxperm.
- C. Higher than maxperm.
- D. Lower than maxperm.

Answer: A

Explanation: The correct answer is "falls below minperm." See Redbook SG24-6184 Chapter 6 Section 6.5 page 223 quoted here: "When the number of pages of the free list falls below that specified in the minfree parameter, the VMM begins to steal pages to add to the free list. The VMM continues to steal pages until the free list has at least the number of pages specified by the maxfree parameter."

QUESTION 5:

Which of the following logical volume placement policies is likely to give the best performance in most cases, all other factors being equal?

- A. INTRA-POLICY set to 'edge', INTER-POLICY set to maximum
- B. INTRA-POLICY set to 'center', INTER-POLICY set to maximum
- C. INTRA-POLICY set to 'middle', INTER-POLICY set to minimum
- D. INTRA-POLICY set to 'center', INTER-POLICY set to minimum

Answer: B

QUESTION 6:

Which of the following performance tools will work optimized code and also provides source statement profiling?

- A. prof

- B. gprof
- C. kprof
- D. tprof

Answer: D

QUESTION 7:

The nice value is 80 in the ps listing. Which command is used to change this to a value of 100?

- A. renice 100 {PID}
- B. renice -n 20 {PID}
- C. renice -20 {PID}
- D. renice -n -100 {PID}

Answer: B

Explanation: See this same actual question in Redbook SG24-6184 Chapter 6

QUESTION 8:

Which of the following procedures WILL NOT increase contiguous free space on the filesystem /data1, located on /dev/lv01, that is heavily fragmented?

- A. Run defragfs -r /data1; defragfs /data1
- B. Run defragfs -r /dev/lv01; defragfs /dev/lv01
- C. Back up the filesystem by name, unmount the filesystem, recreate the filesystem by running mkfs /dev/lv01, and restoring the data from the backup.
- D. Back up the file system by inode, unmount the filesystem, recreate the filesystem by running mkfs /dev/lv01, and restoring the data from the backup.

Answer: D

QUESTION 9:

When setting up schedules and enforcing scheduling of different types of workloads, which of the following are critical performance issues?

- A. Disk fragmentation
- B. Performance result analysis
- C. Capacity forecasting and planning
- D. Resource contention and availability

Answer: D

QUESTION 10:

A TCP/IP application is transferring files from a personal machine to a remote machine. The application writes 32 kilobytes of data at a time to the socket, but has not issued a system call to set the window size. Which of the following procedures should be performed on the personal machine to increase the throughput of the application?

- A. Increase the size of the wall
- B. Increase the size of sb_max
- C. Increase the size of tcp_recvspace
- D. Increase the size of tcp_sendspace

Answer: D

QUESTION 11:

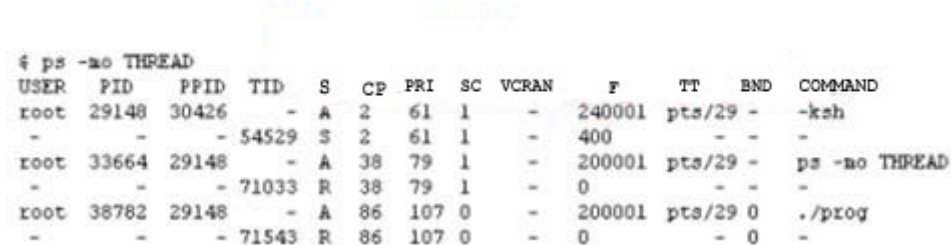
The system administrator notices that there is an I/O bottleneck on one of three disks in the datavg volume group. This problem disk contains the JFS log, loglv00 and one filesystem, /mydatabase. There are no other logical volumes on this disk. Which of the following options would be the best solution?

- A. Increase the size of the JFS log logical volume so more transactions can be written to this log.
- B. Create a second, additional JFS log and have the /mydatabase logical volume point to both JFS logs.
- C. Migrate the JFS log device to another physical disk in the same volume group.
- D. Only one JFS log device for each volume group can be used. Use the migratepv command to move the JFS log device to an empty disk in another volume group.

Answer: C

QUESTION 12:

Exhibit



```

$ ps -mo THREAD
USER  PID  PPID  TID   S   CP  PRI  SC  VCRAN      F      TT  BND  COMMAND
root  29148 30426   -   A    2   61   1    -    240001 pts/29 -  -ksh
-      -      - 54529   S    2   61   1    -    400    -  -  -
root  33664 29148   -   A   38   79   1    -    200001 pts/29 -  -ps -mo THREAD
-      -      - 71033   R   38   79   1    -     0    -  -  -
root  38782 29148   -   A   86  107   0    -    200001 pts/29 0  -./prog
-      -      - 71543   R   86  107   0    -     0    -  0  -
  
```

Using the "ps -mo THREAD" output as shown in the exhibit, which of the following conclusions is most appropriate to draw?

- A. This is a uniprocessor system

- B. The "prog" process has a nice value of 107
- C. There are two active processors on this system
- D. The "prog" process will only be scheduled to run on processor 0

Answer: D

QUESTION 13:

Given the following on a system that is not a name server, which will be the first area searched to resolve a host name to an IP address?

```
"cat /etc/resolv.conf
domain widgitsrus.com
nameserver 192.9.201.1
nameserver 192.9.201.2
"cat /etc/netsvc.conf
hosts =local,bind,nis
"echo $NSORDER
local,nis,bind
```

- A. /etc/hosts on server 192.9.201.2
- B. /etc/hosts on the local system
- C. /etc/netsvc.conf on the NIS server
- D. /etc/named.rev on 192.9.201.1

Answer: B

QUESTION 14:

An AIX system administrator needs to adjust the maximum percentage of memory that can be pinned. Which of the following commands is used to make the change?

- A. vmtune -M
- B. svmon -m
- C. vmstat -s
- D. schedtune -m

Answer: A

QUESTION 15:

Exhibit

```

lslv -p hdisk0 lv00
hdisk0:lv00:N/A
0001 0002 0003 0004 0005 0006 0007 0008 0009 0010 1-10
0011 0012 0013 0014 0015 0016 0017 0018 0019 0020 11-20
0021 0022 0023 0024 0025 0026 0027 0028 0029 0030 21-30
0031 0032                                31-32

0033 0034 0035 0036 0037 0038 0039 0040 0041 0042 33-42
0043 0044 0045 0046 0047 0048 0049 0050 0051 0052 43-52
0053 0054 0055 0056 0057 0058 0059 0060 0061 0062 53-62
0063 0064                                63-64

USED  USED  USED  USED  USED  USED  USED  USED  USED  USED  65-74

```

Using the output of "lslv" as shown in the exhibit, and given the logical volume lv00 is only located on hdisk0, which of the following conclusions is most appropriate to draw?

- A. Logical volume lv00 is fragmented on hdisk0
- B. Logical volume lv00 size cannot be increased
- C. Logical volume lv00 is used for paging space on hdisk0
- D. Logical volume lv00 is the only logical volume on hdisk0

Answer: A

Explanation: The correct answer is "Logical volume lv00 size cannot be increased". This is correct because the lslv output display clearly has no available "FREE" partitions to increase the lv00 logical volume on this disk.

Not A:

There is no information here (such as from the fileplace command) that could possibly lead to this conclusion. The output of lslv -l would have contained fragmentation information, but not lslv -p.

QUESTION 16:

Which of the following options would best help to reduce packet fragmentation for a TCP application transferring large amounts of data between servers across a path of multiple networks?

- A. Adjust Path MTU attributes, using the no command.
- B. Adjust the status queue size on the adapters, using the chdev command.
- C. Adjust ipforwarding to enabled, using the no command.
- D. Adjust tcp_maxburst to enabled, using the no command.

Answer: A

QUESTION 17:

The system administrator notices that IP packets are not getting forwarded. The system administrator wants to use an AIX machine as an internetwork router over TCP/IP networks. Which of the following commands will allow this change on the fly?

A. Some network attributes are runtime attributes that can be changed at any time. Others are loadtime attributes that must be set before the netinet kernel extension is loaded and be placed in the /etc/rc.net or /etc/rc.bsdnet file. This parameter cannot be done on the fly, since a reboot is required.

B. Add to the /etc/rc.net file or if a Berkelye-style network configuration, /etc/rc.bsdnet, and issue the command: no -a ipforwarding=1 to start ipforwarding immediately.

C. Add to the /etc/rc.net file or if a Berkeley-style network configuration, /etc/rc.bsdnet, and issue the command: no -o ipforwarding=0 to start ipforwarding immediately.

D. Add to the /etc/rc.net file or if a Berkeley-style network configuration, etc/rc.bsdnet, and issue the command: no -o ipforwarding=1 to start ipforwarding immediately.

Answer: D

QUESTION 18:

If percentage of RAM occupied by file pages falls below minperm, page replacement algorithm steals pages from

A. file pages only.

B. computational pages only.

C. either file or computational pages.

D. working segment only.

Answer: C

QUESTION 19:

A system administrator increases the mbuf pool allocation, then runs vmstat. It is noticed that the paging rate has not decreased. What is the most effective option to maintain the mbuf pool and decrease paging?

A. Increase the number of CPUs.

B. Increase the physical memory.

C. Set the PSALLOC environment variable to 'late'.

D. Set the PSALLOC environment variable to 'early'.

Answer: B

QUESTION 20:

Which of the following is true about rmss?

A. rmss is a part of performance toolbox and stands for Reduced Memory System Simulator

B. rmss is a part of perfpmr and stands for Real Memory System Simulator

- C. rmss is part of the standard bos.perf filesets and stands for Redundant Memory System Simulator
- D. rmss is part of WLM and stands for Ream Memory System Simulator

Answer: A

QUESTION 21:

Which of the following RAID levels provide the best performance for a system where there are mostly writes occurring?

- A. RAID 0
- B. RAID 1
- C. RAID 3
- D. RAID 5

Answer: A

QUESTION 22:

When monitoring a system using vmstat with an interval, the metrics under page po represent which of the following phrases?

- A. The number pages over the limit
- B. The pages to paging space per second
- C. The number of page operations per second
- D. The number of processes waiting for page out

Answer: B

QUESTION 23:

Which of the following commands should be sued to monitor the average number of threads in the scheduler's run queue for any given interval?

- A. tprof
- B. iostat
- C. vmstat
- D. filemon

Answer: C

QUESTION 24:

Which of the following statements is TRUE concerning the po clumn of the vmstat command?

- A. The high po values often reflect increased id values.
- B. The high po values often reflect increased sys values.
- C. The high po values often reflect increased us values.
- D. The high po values often reflect increased wa values.

Answer: D

QUESTION 25:

Exhibit

```
$ /usr/bin/vmstat 120 10
```

kthr		memory		page				faults				cpu				
r	b	ava	fre	re	pi	po	fr	sr	cy	in	sy	cs	us	sy	id	wa
0	1	59903	542	0	0	0	0	0	0	451	912	478	43	11	15	31
0	2	59904	550	0	0	0	0	0	0	521	1436	650	23	19	4	50
0	3	59950	538	0	0	0	0	0	0	344	649	249	7	7	6	80
0	2	59899	578	0	0	0	0	0	0	467	1829	500	12	14	4	70
0	2	59882	589	0	0	0	0	0	0	600	1292	705	6	8	3	61
0	3	59882	420	0	0	0	0	0	0	452	952	372	11	8	1	80
0	2	59954	420	0	0	0	0	0	0	537	1979	573	13	5	10	72
0	2	59954	423	0	0	0	0	0	0	618	1413	686	15	9	6	70
0	3	59954	420	0	0	0	0	0	0	551	938	634	4	2	2	92
0	2	59954	422	0	0	0	0	0	0	460	1376	496	14	2	4	80

While a user is compiling an C program, "vmstat 120 10" is run to determine the cause of a performance problem. Using the vmstat output as shown in the exhibit, which of the following conclusions is most appropriate to draw about the I/O bottleneck?

- A. The bottleneck is network I/O.
- B. The bottleneck is local disk I/O.
- C. The bottleneck is paging space I/O.
- D. The bottleneck is to a remote filesystem.

Answer: B

QUESTION 26:

Which of the following commands should be used to report statistics on network protocols used by the system?

- A. lsattr
- B. pstat
- C. netstat
- D. ifconfig

Answer: C

QUESTION 27:

Which of the following commands should be used to tune parameters of device that are displayed with lsattr?

- A. chdev
- B. cfgmgr
- C. vmtune
- D. schedtune

Answer: A

QUESTION 28:

When monitoring a system using vmstat with an interval, which of the following conclusions should be drawn about the metrics under page pi and page po?

- A. The values do not include working storage.
- B. The values do not include persistent storage.
- C. The values include both persistent and working storage.
- D. The values are not working or persistent storage.

Answer: B

QUESTION 29:

Which of the following tools should be used to analyze the placement of file fragments on a mirrored logical volume?

- A. df
- B. lslv
- C. filemon
- D. fileplace

Answer: D

QUESTION 30:

A system administrator would like to reset statistics to initial values prior to collecting device statistics on ent0 interface. Which of the following commands should be run to accomplish this?

- A. netstat -v ent0
- B. chdev -l ent0 -a reset=true
- C. entstat -r ent0
- D. Ethernet interface values cannot be reset.

Answer: C

QUESTION 31:

Which of the following commands should be used to show DNS information?

- A. trace
- B. netstat
- C. ifconfig
- D. nslookup

Answer: D

QUESTION 32:

The maxmbuff is low by default for systems expecting high network traffic and/or usage. Which of the following utilities should be used to report requests for mbufs that have failed and/or been denied?

- A. no
- B. ping
- C. netstat
- D. ifconfig

Answer: C

QUESTION 33:

Exhibit

```
$ /usr/bin/vmstat 120 10
```

kthr		memory		page				faults				cpu				
r	b	ava	fre	re	pi	po	fr	sr	cy	in	sy	cs	us	sy	id	wa
0	1	59903	542	0	0	0	0	0	0	451	912	478	43	11	15	31
0	2	59904	550	0	0	0	0	0	0	521	1436	650	23	19	4	50
0	3	59950	538	0	0	0	0	0	0	344	649	249	7	7	6	80
0	2	59899	578	0	0	0	0	0	0	467	1829	500	12	14	4	70
0	2	59882	589	0	0	0	0	0	0	600	1292	705	6	8	3	61
0	3	59882	420	0	0	0	0	0	0	452	952	372	11	8	1	80
0	2	59954	420	0	0	0	0	0	0	537	1979	573	13	5	10	72
0	2	59954	423	0	0	0	0	0	0	618	1413	686	15	9	6	70
0	3	59954	420	0	0	0	0	0	0	551	938	634	4	2	2	92
0	2	59954	422	0	0	0	0	0	0	460	1376	496	14	2	4	80

While a user is compiling a C program, "vmstat 120 10" is run to determine the cause of a performance problem. Given the vmstat output as shown in the exhibit, which of the following conclusions is most appropriate to draw about the machine?

- A. The machine has too many users.
- B. The machine has an I/O bottleneck.

- C. The machine has a CPU bottleneck.
- D. The machine has a memory bottleneck.

Answer: B

QUESTION 34:

In AIX 5L and later, the operating system supports the /proc filesystem. What would be the best description of the /proc filesystem?

- A. It is a pseudo filesystem that maps processes and kernel data structures to corresponding files.
- B. It is a JFS mounted filesystem that provides an exact representation of what is happening to a process at a single and discrete point of time.
- C. It is a JFS mounted filesystem that maps processes and read0only files related to these processes.
- D. It is a pseudo filesystem that contains data that represents the state of the parent processes (but not their threads) in a system.

Answer: A

QUESTION 35:

Which tool is based on the AIX trace facility?

- A. no
- B. netpmon
- C. enstat
- D. nfso

Answer: B

QUESTION 36:

In order to determine how efficiently an application is reading and writing data, which of the following utilities will report read and write sizes on disk I/O requests?

- A. tprof
- B. iostat
- C. svmon
- D. filemon

Answer: D

QUESTION 37:

Which of the following commands should be used to determine which disk of a system is experiencing a disk I/O performance problem?

- A. filemon
- B. istat
- C. vmstat
- D. iostat

Answer: D

QUESTION 38:

Which command series should be used to determine whether file paging or paging space paging is a problem when running a program from an idle system?

- A. foo ; lsps -s
- B. tprof -kx ; foo
- C. iostat ; foo ; iostat
- D. vmstat -s ; foo ; vmstat s

Answer: D

QUESTION 39:

Which of the following commands will only provide a snapshot of average memory usage for a process?

- A. vmtune
- B. ps au
- C. iostat
- D. rmss -m

Answer: B

QUESTION 40:

Which of the following metrics provided by the iostat report is used to initially determine if a disk is I/O bound?

- A. tin
- B. tout
- C. % idle
- D. % tm_act

Answer: D

QUESTION 41:

Which of the following commands should be used to monitor the number of threads on the scheduler's run queue for any given interval?

- A. sar
- B. pstat
- C. iostat
- D. filemon

Answer: A

QUESTION 42:

Which of the following commands should be used to identify packet sequence problems?

- A. ping and arp
- B. lsattr and ifconfig
- C. netstat and iostat
- D. iptrace and tcpdump

Answer: D

QUESTION 43:

Which of the following phrases is TRUE regarding monitoring disk I/O with iostat?

- A. The iostat can only be run as the root user
- B. There could be zero percent I/O wait and still be an I/O bottleneck
- C. Any I/O wait time displayed in output of "iostat" is an indication of severe I/O bottlenecks
- D. Running "iostat" without any arguments/parameters is sufficient for resolving I/O bottlenecks

Answer: B

QUESTION 44:

In an iostat report, which of the following options best describes the value of %tm_act?

- A. The total CPU usage for this drive
- B. The bandwidth utilization of the indicated drive
- C. It can best be represented by the equation (%iowait - %ioidle)
- D. It can best be represented by the equation (kilobytes read/kilobytes written) * 100

Answer: B

QUESTION 45:

Which of the following command should be used to show the percentage of time that any given disk was busy?

- A. ps
- B. tprof
- C. iostat
- D. vmstat

Answer: C

QUESTION 46:

Which of the following tools should be used to display the location of unused physical partitions on a disk drive?

- A. df -k
- B. lsps
- C. lslv -p
- D. filepalce

Answer: C

QUESTION 47:

While monitoring a system that is CPU bound, which of the following output is most likely to occur?

- A. kthr memory page faults cpu

```
-----  
r b avm fre CK pi po fr sr cy in sy cs us sy id wa  
1 0 14388 17819 0 0 0 0 0 0 115 922 215 89 11 0 0  
2 0 14389 17818 0 0 0 0 0 0 114 752 215 98 2 0 0
```

- B. kthr memory page faults cpu

```
-----  
r b avm fre CK pi po fr sr cy in sy cs us sy id wa  
1 0 14388 17819 0 0 0 0 0 0 115 922 215 0 0 89 11  
2 0 14389 17818 0 0 0 0 0 0 114 752 215 0 0 98 2
```

- C. kthr memory page faults cpu

```
-----  
r b avm fre CK pi po fr sr cy in sy cs us sy id wa  
1 0 14388 17819 0 0 0 0 0 0 115 922 215 0 0 11 89
```


2 0 14389 17818 0 0 0 0 0 114 752 215 0 0 98 2

D. kthr memory page faults cpu

r b avm fre CK pi po fr sr cy in sy cs us sy id wa
1 0 1438 17819 0 0 0 0 0 115 922 215 40 10 25 15
2 0 14389 17818 0 0 0 0 0 114 752 215 60 2 27 11

Answer: A

QUESTION 48:

The bos.perf package is part of the base operating system. Performance Diagnostic tool, PDT, is a part of bos.perf. All of the following statements are true EXCEPT?

- A. PDT attempts to identify performance problems automatically by collecting and integrating a wide range of performance, configuration and availability data.
- B. PDT consists of three components, the collection component comprises a set of programs that periodically collect and record data, the retention component periodically reviews the collected data and discards data that is obsolete, and the reporting component periodically produces a diagnostic report form the current set of historical data.
- C. PDT contains motif-based, AIX licensed programs that can easily access tools for system and network performance tuning, monitoring, and analysis.
- D. PDT accesses the current state of a system and tracks changes in workload and performance. It attempts to identify incipient problems and suggest solutions before the problems become critical.

Answer: C

QUESTION 49:

When analyzing disk I/O performance, which of the following metrics and/or statistics should be included in the study?

- A. Disk size, stock availability, VHDCI
- B. Disk size, distance, temperature, and compatibility
- C. Disk fragmentation, MTBF, and maintenance
- D. Disk configuration, throughput, transactions, queues, and latencies

Answer: D

QUESTION 50:

Which of the following commands can be used to obtain information about the installed software?

- A. lspp -L

- B. uname -s
- C. oslevel -q
- D. installp -p

Answer: A

QUESTION 51:

Which of the following commands can be used to review the system error logs?

- A. errpt -a
- B. errpt -l
- C. errdemon -l
- D. syslogd -r

Answer: A

QUESTION 52:

Which of the following commands can be used to clean up a failed software installation process?

- A. installp -D
- B. installp -d
- C. installp -C
- D. installp -c

Answer: C

QUESTION 53:

A system must be evaluated and tuned. In order to use a set of performance evaluation programs (e.g., filemon, symon, and tprof) which of the following packages should exist on the system in question?

- A. bos.adt
- B. bos.perf
- C. Java.adt
- D. Perfagent.tools

Answer: D

QUESTION 54:

Which of the following commands should be used to obtain information about the maintenance level of all filesets known to the system?

- A. `lspp -w`
- B. `uname -m`
- C. `instfix -i | grep AIX_ML`
- D. `installp -p | grep ML`

Answer: A

Explanation: The correct answer is a derivative of "`lspp -w`". While the "-w" flag should be replaced with "-l", this is the closest answer. The command "`lspp -l`" will list all filesets known to the system with their maintenance level.

Not D: "`installp -p | grep ML`" is wrong. It does not work without more parameters. The "-p" tells us to do a preview operation, not a list of installed filesets.

QUESTION 55:

Which of the following commands should be used to obtain information about the installed software?

- A. `smit system`
- B. `smit installp`
- C. `smit licenses`
- D. `smit list_software`

Answer: D

QUESTION 56:

Using the `schedtune` output, memory is considered over-committed if:

- A. more than one process is spinning.
- B. more than 4 processes become active.
- C. the system schedules more than 16 processes.
- D. the pageouts divided by page steals is greater than 1/h.

Answer: D

QUESTION 57:

Which of the following commands can be used to commit applied filesets?

- A. `/usr/sbin/installp -C`
- B. `/usr/sbin/inutoc -c`
- C. `/usr/sbin/installp -c`
- D. `/usr/sbin/lsrcsource -c`

Answer: C

QUESTION 58:

When trying to run topas on an AIX 4.3.x system, the system administrator gets the error message "ksh: topas: not found." Which of the following options is the most likely reason this occurred?

- A. The fileset bos.perf.tools is not loaded on this system.
- B. The fileset perfgent.tools is not loaded on this system.
- C. The command topas is only available in AIX version 5.x.
- D. The path variable does not include /usr/samples/kernel/. Either add it to the .profile or cd to that location and run the command again.

Answer: B

QUESTION 59:

Service level Agreements (SLA) typically do not address _____

- A. Network access and availability
- B. Application access and availability
- C. Escalation and conflict resolution
- D. Headcounts and budgets

Answer: D

QUESTION 60:

A small company would like help in identifying an apparent system performance problem on its internal mail server, especially to determine peak hour usage. What would be the first step in identifying the problem?

- A. cd /var/spool/cron/crontabs.uncomment the lines in the adm file, in order to start gathering statistics.
- B. cd /var/spool/cron/crontabs; uncomment the lines in the SYS file, in order to start gathering statistics.
- C. cd /usr/lib/cron;; vi the adm file; startsrc -s sadc
- D. Cd /usr/lib/cron/; vi the sys file; startsrc -s sadc

Answer: A

QUESTION 61:

A system must be evaluated and tuned. In order to use a set of performance

evaluation programs (e.g. filemon, svmon, and tprof), which of the following packages should exist on the system?

- A. bos.rte.control (WLM)
- B. bos.perf
- C. xlC.rte
- D. perfagent.tools

Answer: D

QUESTION 62:

Which of the following commands will provide information as to the maintenance level of a particular fileset?

- A. find /usr/sys/inst images -print | grep [fileset.name]
- B. instfix -I | grep ML
- C. lspp -l | grep [fileset.name]
- D. installp -A -i [fileset.name]

Answer: C

QUESTION 63:

Which of the following commands can be used to watch system errors as they are logged?

- A. smit errpt
- B. smit errdemon
- C. smit alog
- D. smit syslogd

Answer: A

QUESTION 64:

A small company would like help in identifying an apparent system performance problem on its internal mail server, especially to determine peak hour usage. What would be the first step in identify the problem?

- A. Uncomment the lines in the /var/spool/cron/crontabs/adm file, in order to start gathering statistics.
- B. Uncomment the lines in the /var/spool/cron/crontabs/sys file, in order to start gathering statistics.
- C. cd /usr/lib/cron/; vi the adm file; startsrc -s sa1; startsrc -s sa2;
- D. cd /usr/lib/cron/; vi the sys file; startsrc -s sa1; startsrc -s sa2;

Answer: A

QUESTION 65:

Which of the following commands should be used to obtain information about the software packages available on the installation media?

- A. lsattr
- B. inoutoc
- C. installp
- D. lsresource

Answer: C

QUESTION 66:

Exhibit

```
# /usr/sample/kernel/schedtune
```

THRASH			SUS		FOLK		SCHED			
-h	-p	-m	-u	-v	-l	-d	-e	-t	-s	
SYS	PROC	MULTI	WAIT	GRACE	TICKS	SCHED_D	SCHED_R	TIMESLICE	MAXSPIN	
6	4	2	1	2	10	16	16	1	1	

```
CLAMP SCHED_STRG TIME_MTCNT/MS STVRB_SDT
```

Using the schedtune output, memory is considered over-committed if:

- A. more than one process is spinning.
- B. more than 4 processes become active.
- C. the system schedules more than 16 processes.
- D. the pageouts divided by page steals is greater than 1/h.

Answer: D

QUESTION 67:

Which of the following filesets needs to be installed in order to use topas at AIX Version 5.x?

- A. perfagent.tools
- B. bos.perf.tools
- C. bos.adt.samples
- D. perfmgr.local

Answer: A

Explanation: Answer

A. is more correct.

We have a problem with your list of answers as both answers

A. perfagent.tools and B.

bos.perf.tools are needed. See the man page on topas for example, quoted here: "The topas command requires the bos.perf.tools and perfagent.tools filesets to be installed on the system." See also Redbook SG24-6184 Chapter 3 Section 3.7 on page 95, quoted here "The topas command ... requires the AIX version 5L (or later) perfagent.tools fileset to be installed on the system."

Not B: bos.perf.tools" is only half right, and probably wrong.

QUESTION 68:

Which fastpath would be used to go directly to commit applied software?

- A. smit commit
- B. smit install
- C. smit software
- D. smit verify_install

Answer: A

QUESTION 69:

Which of the following packages is a prerequisite for perfpmr?

- A. bos.rte.control
- B. bos.perf
- C. bos.adt.utils
- D. perfagent.tools

Answer: B

QUESTION 70:

Which fileset includes the commands vmstat and sar?

- A. bos.perf
- B. bos.acct
- C. bos.adt.samples
- D. perfagent.tools

Answer: B

QUESTION 71:

A small company would like help in identifying an apparent system performance problem on its internal mail server, especially to determine peak hour usage. What would be the first step in identifying the problem?

- A. cd /var/spool/cron/crontabs, uncomment the lines in the adm file, in order to start gathering statics.
- B. cd /var/spool/cron/crontabs, uncomment the lines in the sys file, in order to start gathering statics.
- C. Cd /usr/lib/cron/; vi the adm file; startsrc -s sadc
- D. Cd /usr/libcron/; vi the sys file; startsrc -s sadc

Answer: A

QUESTION 72:

Comprehensive Service Level Agreements typically do not address:

- A. Roles & responsibilities
- B. Headcount & budgets
- C. Reporting policies
- D. Penalties

Answer: B

QUESTION 73:

How are hardware errors removed from an error report that are more than 30 days old?

- A. /usr/bin/errpt -d H 30
- B. /usr/sbin/errclear -J H 30
- C. /usr/bin/errclear -d H 30
- D. /usr/sbin/errclear -j H 30

Answer: C

QUESTION 74:

Which of the following WLM commands should be used to monitor performance on a system running wlm?

- A. wlmcntrl
- B. wlmstat
- C. wlmcheck
- D. wlmassgn

Answer: B

QUESTION 75:

Which of the following commands should be used to watch system errors as they are logged?

- A. errpt -c
- B. tail -f /var/adm/ras/errlog
- C. syslogd -d
- D. /usr/liberrdemon -s 8192

Answer: A

QUESTION 76:

Which of the following commands will provide information as to the maintenance level of a particular fileset?

- A. lppchk -cv | more
- B. instfix -i | grep ML
- C. lspp -l grep [fileset.name]
- D. installp -A -i [fielset.name]

Answer: C

QUESTION 77:

Where can the perfagent.tools fileset be found?

- A. AIX Base CD
- B. AIX BonusPak CD
- C. AIX Performance Toolbox product CD
- D. Performance AIDE product CD

Answer: A

QUESTION 78:

Which of the following statements is TRUE concerning the po column of the vmstat command?

- A. The sys is high when po is high.
- B. The po represents the number of page steals.
- C. The low values usually indicate insufficient paging space.
- D. The low values usually indicate sufficient memory for the load.

Answer: D

QUESTION 79:

A typical example of a process # 19082 in the /proc file would be:

```
# ls -l /proc/19082
```

```
total 0
```

```
dr-xr-xr-x 1 root system 0 Sep 15 15:12 .
```

```
dr-xr-xr-x 1 root system 0 Sept 15 15:12 ..
```

```
-rw----- 1 root system 0 Sept 15 15:12 as
```

```
-r----- 1 root system 128 Sept 15 15:12 cred
```

```
--w----- 1 root system 0 Sept 15 15:12 ctl
```

```
dr-xr-xr-x 1 root system 0 Sept 15 15:12 lwp
```

```
-r----- 1 root system 0 Sept 15 15:12 map
```

```
dr-x----- 1 root system 0 Sept 15 15:12 object
```

```
-r--r--r-- 1 root system 448 Sept 15 15:12 psinfo
```

```
-r----- 1 root system 1024 Sept 15 15:12 sigact
```

```
-r----- 1 root system 1520 Sept 15 15:12 status
```

```
-r--r--r-- 1 root system 0 Sept 15 15:12 sysent
```

Writing to which of the following files will allow the owner to stop a process?

- A. status
- B. sysent
- C. ctl
- D. as

Answer: C

QUESTION 80:

Which of the following commands is most useful in initially collecting data to determine a network performance problem?

- A. ping
- B. trace
- C. ifconfig
- D. lsattr

Answer: A

QUESTION 81:

Exhibit

```

$ /usr/bin/vmstat 120 10
kthr      memory          page        faults          cpu
-----
r  b   avm    fre      re pi po fr sr cy   in   sy   cs   us   sy   id   wa
0  1  59903   542       0  0  0  0  0  0   451   912  478  43  11  15  31
0  2  59904   550       0  0  0  0  0  0   521  1436  650  23  19   4  50
0  3  59950   538       0  0  0  0  0  0   344   649  249   7   7   6  80
0  2  59899   578       0  0  0  0  0  0   467  1829  500  12  14   4  70
0  2  59882   589       0  0  0  0  0  0   600  1292  705   6   8   3  61
0  3  59882   420       0  0  0  0  0  0   452   952  372  11   8   1  80
0  2  59954   420       0  0  0  0  0  0   537  1979  573  13   5  10  72
0  2  59954   423       0  0  0  0  0  0   618  1413  686  15   9   6  70
0  3  59954   420       0  0  0  0  0  0   551   938  634   4   2   2  92
0  2  59954   422       0  0  0  0  0  0   460  1376  496  14   2   4  80

```

While a user is compiling a C program, "vmstat 120 10" is run to determine the cause of a performance problem. Given the vmstat output as shown in the exhibit, which of the following conclusions should be drawn about the I/O bottleneck?

- A. There is a file I/O bottleneck.
- B. There are too many open files.
- C. There appears to be a buffer storage.
- D. There is a paging space I/O bottleneck.

Answer: A

QUESTION 82:

Which of the following commands will reset NFS options to their defaults?

- A. nfso -d
- B. nfso -c
- C. startsrc -g nfs -d
- D. startsrc -g nfs -r

Answer: A

QUESTION 83:

Exhibit, lsps Output

```

# lsps -a
Page Space Physical Volume Volume Group Size %Used Active Auto Type
hd6      hdisk0      footyg      256MB    13    yes  yes  lv

```

Exhibit, iostat Output

```
# iostat 120 5
tty:  tin   tout  cpu:  % user  % sys  % idle  % iowait
      47.0 1394.6          50.3   19.6   25.0    5.1

Disks:  % ta_act  Kbps   tps  Kb_read  Kb_wrtn
hdisk0    97.0   124.4  59.3   1924    12240
hdisk1     0.8    21.5  16.6    492      0
hdisk2     0.2     0.3   0.1     8      12

tty:  tin   tout  cpu:  % user  % sys  % idle  % iowait
      47.1 1046.3          45.0   40.0    4.0   11.0

Disks:  % ta_act  Kbps   tps  Kb_read  Kb_wrtn
hdisk0    98.5   186.1  56.4   9260   13008
hdisk1     0.6    23.8  18.5    96     332
hdisk2     0.3     0.6   0.1     4      32

tty:  tin   tout  cpu:  % user  % sys  % idle  % iowait
      39.8 1709.1          30.0   40.0   10.0   20.0

Disks:  % ta_act  Kbps   tps  Kb_read  Kb_wrtn
hdisk0    98.3   164.6  55.2   7144   12532
hdisk1     0.2    36.9  26.6    312    904
hdisk2     1.2     2.2   0.5     26    100
```

Using the command output as shown in the exhibits, which of the following conclusions is most appropriate to draw?

- A. There is an I/O bottleneck.
- B. The machine needs more memory.
- C. The machine has a CPU bottleneck.
- D. A paging space volume needs to be added to hdisk1 or hdisk2

Answer: A

QUESTION 84:

Which of the following commands should be used to monitor the number of bytes read on any given disk?

- A. tprof
- B. topas
- C. filemon
- D. vmstat

Answer: B

QUESTION 85:

In an iostat report, which of the following options best describes the value of % iowait?

- A. The amount of time taken to service an I/O interrupt
- B. The percentage of time CPU(s) are waiting for page ins
- C. The percentage of time the CPU9(s) are waiting on network
- D. The percentage of time the CPU(s) are waiting for outstanding disk I/O requests

Answer: D

QUESTION 86:

Exhibit

```
$ /usr/bin/vmstat 120 10
```

kthr		memory				page				faults				cpu			
r	b	ava	fre	re	pi	po	fr	sr	cy	in	sy	cs	us	sy	id	wa	
1	0	59903	120	0	11	18	20	175	0	451	912	478	53	11	35	1	
1	0	59904	122	0	27	23	25	299	0	521	1436	650	43	19	34	4	
1	0	59950	118	0	29	31	48	290	0	344	649	249	17	7	76	0	
2	0	59899	128	0	37	40	62	272	0	467	1829	500	52	14	31	3	
1	0	59882	121	0	49	60	79	290	0	600	1292	705	46	20	33	1	
1	0	59882	120	0	45	30	40	281	0	452	952	372	41	18	41	0	
2	0	59954	120	0	22	50	66	293	0	537	1979	573	55	23	20	2	
1	0	59954	123	0	8	10	21	296	0	618	1413	686	45	19	36	0	
2	0	59954	120	0	61	35	43	212	0	551	938	634	50	16	32	2	
1	0	59954	122	0	21	15	46	294	0	460	1376	496	54	12	34	0	

While a developer is compiling a C program, "vmstat 120 10" is run to determine the cause of performance problem. Using the vmstat output as shown in the exhibit, which of the following conclusions is most appropriate to draw about the machine?

- A. The machine has too many users.
- B. The machine has an I/O bottleneck.
- C. The machine has a CPU bottleneck.
- D. The machine has a memory bottleneck.

Answer: D

QUESTION 87:

In an iostat report, which of the following options best describes the value of % idle?

- A. The representation of the equation (tps/kbps)* 100
- B. The percentage of time the disks are idle with no activity
- C. The percentage of time the disks are idle with no outstanding CPU requests
- D. The percentage of time the CPU is idle with no outstanding disk I/O requests

Answer: D

QUESTION 88:

Which of the following commands should be used to view and change the network filesystem tuning parameters available on the system?

- A. no
- B. nfso

- C. vmtune
- D. exportfs

Answer: B

QUESTION 89:

When monitoring a system using /usr/bin/vmstat with an interval, the metrics under page pi and page po represent which of the following phrases?

- A. The pages to and from paging space per second
- B. The page intervals and page operations per second
- C. The page interrupts and page operations per second
- D. The page segments transferred between pi and po devices per second

Answer: A

QUESTION 90:

Which of the following tools should be used to report in-depth information about file fragments?

- A. defragfs
- B. istat
- C. filemon
- D. fileplace

Answer: D

QUESTION 91:

While monitoring a system using vmstat, which of the following options most likely indicates that the system is CPU bound?

- A. r is greater than 40
- B. id is greater than 50
- C. sum of id and wa equals 50
- D. sum of us and sy equals 100

Answer: D

QUESTION 92:

Which of the following commands should be used to monitor disk utilization during the time a system is experiencing disk I/O performance problem?

- A. istat
- B. topas
- C. vmstat
- D. filemon

Answer: B

QUESTION 93:

Which of the following tools should be used to report current network status and is often used to check the reliability of a network?

- A. netpmon
- B. netstat
- C. nfsstat
- D. vmstat

Answer: B

QUESTION 94:

Which of the following commands is used to display detailed Ethernet statistics for ent0?

- A. ifconfig ent0
- B. entstat -d ent0
- C. netstat -i
- D. lscfg-vl ent0

Answer: B

QUESTION 95:

Which of the following tools is used to report the location of logical partitions of a file system on a physical volume?

- A. lsfs
- B. iostat
- C. lslv -p
- D. lsvg -p

Answer: C

QUESTION 96:

Which of the following performance tools can be used to determine if a system is

thrashing?

- A. svmon and tprof
- B. vmtune and schedtune
- C. ps and schedtune
- D. vmstat and topas

Answer: D

QUESTION 97:

Which of the following metrics provided by the iostat report is used to initially determine if a system is I/O bound?

- A. % idle
- B. % sys
- C. % user
- D. % iowait

Answer: D

QUESTION 98:

Which of the following commands should be used to show how much data is read from or written to a particular logical volume, given there are several other logical volumes on the same disk?

- A. sar
- B. lslv
- C. iostat
- D. filemon

Answer: D

QUESTION 99:

Which of the following commands should be used to set network attributes on a currently running kernel?

- A. no
- B. chdev
- C. vmtune
- D. schedtune

Answer: A

QUESTION 100:

After running the vmstat command, which of the following would most likely cause the value in the blocked column to be unusually high?

- A. Kernel thread
- B. Too many users
- C. Memory shortage
- D. Network contention

Answer: A

QUESTION 101:

Users complain an AIX server is running slow. Which of the following commands can be run to determine what is consuming systems resources?

- A. tprof
- B. lpstat
- C. ps aux
- D. entstat

Answer: C

QUESTION 102:

Which of the following commands should be used to determine DNS name resolution performance?

- A. iptrace
- B. vmstat
- C. hostname
- D. ifconfig

Answer: A

QUESTION 103:

Which of the following commands displays the number of system calls per second that are being executed?

- A. sar
- B. pstat
- C. iostat
- D. filemon

Answer: A

QUESTION 104:

Form this partial example of report__myprog.all, generated using the tprof command, which of the following conclusions can be drawn?

Process PID TID Total Kernel User Shared Other

myprog 4228 4884 3015 15 3000 0 0
x 5443 5624 28 1 0 27 0
PID.1032 1032 2065 24 24 0 0 0
PID.1032 1032 4664 3 3 0 0 0
sh 4308 7245 2 2 0 0 0

- A. Process PID 1032 is using a high amount of CPU utilization time in kernel processes only and needs to be investigated.
- B. Myprog is using a high amount of CPU utilization time in user. This application may need to be tuned.
- C. Myprog is just using CPU utilization time efficiently and nothing needs to be investigated.
- D. Process PID 1032 has multiple entries which means that this program is not functioning correctly, and should be investigated further.

Answer: B

QUESTION 105:

Which of the following commands should be used to determine whether a logical volume is contiguous across a disk?

- A. lslv
- B. lsfs
- C. lspv
- D. filepalce

Answer: A

QUESTION 106:

A system has user doing interactive work while background jobs are running. Interactive users are requesting that system response time be improved for foreground processes. Which tuning parameters should be changed to accomplish this?

- A. schedtune -h

- B. schedtune -r
- C. vmtune -f
- D. schedtune -w

Answer: B

QUESTION 107:

Exhibit:

```

F  S  UID  PID  PPID  C  PRI  NI  ADDR  SZ  UCHAN  TTY  TIME  CMD
202803 S  0    1    0    0  60  20  1004  528          - 131:33 init
260801 S  0   1406  1    0  60  20  4550  208          - 0:00 srcmstr
240801 S  0   1694  1    0  60  20  37cd  176  5a6a024 - 0:01 cron
260801 S  0   2448  1    0  60  20  5d57  144          - 3:18 portmap
240801 S  0   2836  1    0  60  20  34cd   72  5e34398 - 42:42 syncd
 42801 S  0   3606  1    0  60  20  50d4  284  cc98     - 0:01 errdemon
260801 S  0   5255  1    0  60  20  5535  148          - 1:00 syslogd
240801 S  0   5541  1    0  59  20  7d9f   60  3f2f8    - 0:00 llbd
240801 S 200  5750  79989 0  60  20  a83   180          pts/10 0:00 -ksh
260801 S  0   6040  1    0  60  20  1565  468          - 7:53 snmpd
 60801 S  0   6299  1    0  60  20  2d6b  224          - 0:00 x_st_mgr
240801 S  0   6502  1406 0  60  20  14e7  184  12d0440 - 0:05 qdaemon
40001 S  0   6603  2    2    2 ae  212  1f28    hft/0 0:32 userprog

```

Using the "ps -el" output as shown in the exhibit, which of the following conclusions is most appropriate to draw?

- A. The snmpd process is running at a fixed priority of 60
- B. If both the syncd process and the portmap process become available to be run at the same time, then the syncd process would get scheduled first
- C. If both the userprog process and the qdaemon process become available to be run at the same time, then the qdaemon process would get scheduled first
- D. If both the syslogd process and the llbd process become available to be run at the same time, then the llbd process would get scheduled first

Answer: D

QUESTION 108:

The rmss command provides the facility to run an application over a range of memory sizes and display the performance statistics.

How is the simulated memory reset to the real memory of the machine?

- A. rmss -c
- B. rmss -p
- C. rmss -r
- D. rmss -s

Answer: C

QUESTION 109:

An AIX system administrator wants to reset the level at which the SIGDANGER signal is sent to processes so appropriate actions can be taken when paging space is running low. Which of the following commands is used to reset the level?

- A. vmtune -w
- B. svmon -w
- C. schedtune -w
- D. vmstat -s

Answer: A

QUESTION 110:

The nfsstat -c command shows zero badxid, but retrans and timeouts are sizeable, what is the most probable cause of the problem?

- A. Too many nfsd's running
- B. Client and server with different buffer sizes
- C. Bridges, routers or gateways are receiving too many fragmented packets
- D. Too few nfsd's running

Answer: B

QUESTION 111:

Given the following on a system that is not a name server, which will be the first area searched to resolve a host name to an IP address?

```
#cat /etc/resolv.conf
domain abc.century.com
nameserver 192.9.201.1
nameserver 192.9.201.2
#cat /etc/netsvc.conf
hsots = bind,nis,local
#echo $NSORDER
local, bind
```

- A. /etc/hosts on server 192.9.201.2
- B. /etc/hosts on the local system
- C. /etc/named.rev on 192.9.201.1
- D. /etc/netsvc.conf on the NIS server

Answer: B

QUESTION 112:

Exhibit:

```
# filemon -0 lv -o filemon.out;sleep 60;trcstop; cat
filemon.out
```

Most Active Logical Volumes

util	#rblk	#wblk	KB/s	volume
description				
0.84		101742		149280
/dev/hd4			/Adms	177.1
0.32		0		16800
/dev/hd8			jfslog	11.9
0.03		0		4608
/dev/hd4			/	3.2

A system has one large disk (hdisk0). A second identical disk (hdisk1) must be added to the system. Using the filemon output as shown in the exhibit during a normal load, how should the workload across the disks be balanced?

- A. increasing the size of /home file system
- B. Adding additional paging space on hdisk1
- C. Creating an additional JFS log for /home on hdisk1
- D. Spreading the /home file system over hdisk0 and hdisk1

Answer: D

QUESTION 113:

An AIX System, which is running a database, is having performance issues with I/O writing. The DBA has provided numbers for the HIGH and LOW watermarks for pending file writes, which will optimize the system for best performance. To set these numbers, which for the following commands would be used?

- A. perfomon -h 30 -l 25
- B. chdev
- C. no -o
- D. smit chgsys

Answer: D

QUESTION 114:

When a system has both online transaction processing as well as large batch processing, which of the following common procedures will best help to improve system performance?

- A. Boost the priority of batch jobs.
- B. Schedule batch runs to reduce contention with OLTP.

- C. Schedule OS maintenance such that it includes frequent application of PTFs.
- D. Perform incremental backups of transaction processing and full backups of batch processing.

Answer: B

QUESTION 115:

The nice value is 60 in the ps listing. Which command is used to change this to a value of 20?

- A. `renice -n 20 {PID}`
- B. `renice -n 20 {PID}`
- C. `renice -n -40 {PID}`
- D. `renice -n 4 {PID}`

Answer: C

Explanation:

Note: There is a problem with the answer C: "`renice -n -40 {PID}`" because -40 is not a valid increment. Valid increments range for the root user from 20 to -20 only. While the command works, it changes the nice value by the maximum increment of -20 and must be executed twice to have the desired effect. Either change the text to indicate two executions or supply the correct question which allows a increment of 20 to -20 maximum. See man page for renice and a correct example in Redbook SG24-6184 Chapter 6 Section 6.7 Quiz question 2.

QUESTION 116:

A TCP/IP application receives files form a remote machine. The application reads 32 kilobytes of data at a time to the socket, but has not issued a system call to set the windows size. Which of the following procedures should be performed on the personal machine to increase the throughput of the application?

- A. Increase the size of the wall
- B. Increase the size of `sb_max`
- C. Increase the size of `tcp_recvspace`
- D. Increase the size of `tcp_sendspace`

Answer: C

QUESTION 117:

Which of the following statements are FALSE concerning the `defragfs` command?

- A. The `defragfs` command should not be run against file systems and logical volumes that

contain mostly transitory information

B. The defragfs command should not be run on a large JFS2 file system when running on a 32-bit kernel.

C. The defragfs command can improve file system performance by increasing the file system's contiguous free space.

D. The defragfs command can only be run against file systems that are mounted with read-write permissions.

Answer: B

QUESTION 118:

Data is transferred between two servers using NFS, where one server is configured with token ring, and the other system is configured with Ethernet. It is discovered that the performance is greatly reduced during this transfer. Which of the following steps should be taken to improve performance?

A. Reduce MTU on token ring system to match Ethernet system using ifconfig command (i.e. `ifconfig tr0 mtu 1500`)

B. Reduce MTU on token ring system to match ethernet system using no command (i.e. `no -o mtu=1500`)

C. Increase MTU on Ethernet system to match token ring system using ifconfig command (i.e. `ifconfig en0 mtu 4096`)

D. Increase MTU on Ethernet system to match token ring system using no command (i.e. `no -o mtu=4096`)

Answer: A

QUESTION 119:

The system administrator notices that after running `netstat -rn`, several small c's are showing up under the flags columns, and routes that were not defined are also showing up. How can these cloned routes be stopped?

A.

By default cloned routes are turned on. To turn cloned routes off

Issue the command:

```
#no -o tcp_pmtu_discover=0
```

```
#no -o udp_pmtu_discover=0
```

and add to the `rc.net` or `rc.bsident` file for next reboot

B.

By default cloned routes are turned on. To turn cloned routes off

issue the command:

```
#no -o tcp_pmtu_discover=1
```

```
#no -o udp_pmtu_discover=1
```

and add to the `rc.net` or `rc.bsident` file for next reboot

C.

By default cloned routes are turned on. To turn cloned routes off issue the command:

```
#no -o ipforwarding=0
```

```
#no -o ipforwarding=0
```

and add to the rc.net or rc.bsident file for next reboot

C.

By default cloned routes are turned on. To turn cloned routes off issue the command:

```
#no -o ipforwarding=1
```

```
#no -o ipforwarding=1
```

and add to the rc.net or rc.bsident file for next reboot

Answer: A

QUESTION 120:

In order to ensure best read performance, which of the following indicates how large an application's read buffer size should be if the filesystem to be read is striped across N disks using LVM striping?

- A. N times the stripe unit size
- B. N times the VMM minfree parameter
- C. The same value as that of the VMM maxfree parameter
- D. The same value as that of the VMM maxrndwrt paramter

Answer: A

QUESTION 121:

The system administrators has been getting complaints about slow performance form the server. After running vmstat the administrator notice average readings that show the free list (fre) approaching zero, as well as page-in (pi) and page-out (po) values to be high. Furthermore, the applications running are essential to daily business operations. Which of the following recommendations would provide the best overall improvement?

- A. Increase physical disk
- B. Increase number of CPU's
- C. Increase physical memory
- D. Increase number of servers

Answer: C

QUESTION 122:

The system administrator has determined that a new JFS log needs to be created on

a different disk, in order to decrease an I/O bottleneck. Which of the following steps are the most correct?

A.

```
mklv -t jfslog -y Lvname Vgname 1 Pvname  
logform /dev/Lvname  
chfs -a log=/dev/Lvname /filesystemname  
mount and unmount filesystem
```

B.

```
mklv -t jfslog -y Lvname Vgname Pvname  
unmount filesystem  
vi /etc/filesystems, change entry for lv to point filesystem to new JFS log  
mount filesystem
```

C.

```
mklvcopy -a jfslog -y Lvname Vgname 1 Pvname  
chfs -a log=/dev/Lvname/filesystemname  
unmount and mount file system
```

D.

```
mklvcopy -t jfslog -y Lvname 1 Pvname  
logform /dev/LVName  
vi /etc/filesystems, change entry for lv to point filesystem to new JFS log  
unmount and mount filesystem
```

Answer: A

QUESTION 123:

Which of the following commands should be used to reset the Virtual Memory tuning parameters to their default values?

- A. schedtune -t
- B. vmtune -R
- C. schedtune -r
- D. schedtune -D

Answer: D

QUESTION 124:

Which of the following commands is used to adjust the minperm and Maxperm values of real memory to 4% and 80%?

- A. vmtune -N4 -M80
- B. vmtune -f4 -F80
- C. vmtune -l4 -L80
- D. vmtune -p4 -P80

Answer: D

QUESTION 125:

When the length of the run queues, process or thread dispatches interrupts, and lock contention metrics and statistics are analyzed for performance, which of the following resources is being analyzed?

- A. CPU
- B. Memory
- C. Disk I/O
- D. Network I/O

Answer: A

Explanation:

The correct answer is "CPU". See Redbook SG24-6184 Chapter 6 Section 6.1 page 206 "The AIX Scheduler" which refers to CPU run queues, thread scheduling, and more, which are CPU based.