**Sample Questions Set 3**

Q1. What are the difference between a process and a service? (2 points)

A Linux service is an application that runs in the background.

A process is an instance of a particular executable running.

Q2. Write PowerShell cmdlet/script (2 points each)

1. to count the number of running processes.
   1. (Get-Process).Count
2. to create a file name angel.txt on c drive
   1. New-Item -Path C:/ -Name angel.txt
3. to show the last 20 log entries from system log-Newest 20
   1. GetEventLog -LogName System -Newest 20
4. to show the free space on different drives
   1. Get-Volume
5. to show the total virtual memory used by all processes

PS C:\Users\leggtc1> (Get-Process).WorkingSet64 | ForEach-Object {$total += $\_}

PS C:\Users\leggtc1> $total = $total / 1GB

PS C:\Users\leggtc1> $total = "{0:n1}" -f $total

PS C:\Users\leggtc1> "$total GB"

5.9 GB

1. to show all the network related processes

Get-WmiObject Win32\_Service | Where-Object -Property ProcessId -In (Get-NetTCPConnection).OwningProcess | Where-Object -Property State -eq Running | Format-Table ProcessId, Name, Caption, StartMode, State, Status, PathName