**Sample Questions Set 3**

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

**A process is an instance of a particular executable (.exe program file) running.**  
  
**A service is a process which runs in the background and does not interact with the desktop.**

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

1. to count the number of running processes.

**(Get-Service | Where-Object Status -eq "Running").Count**

1. to create a file name angel.txt on c drive

**New-Item –Path “C:\” -Nam “angel.txt” -ItemType File**

1. to show the last 20 log entries from system log

**Get-EventLog -LogName System –Newest 20**

1. to show the free space on different drives

**Get-CimInstance -ClassName Win32\_LogicalDisk | Select-Object -Property DeviceID,FreeSpace**

1. to show the total virtual memory used by all processes

**Get-Process**

1. to show all the network related processes

**Get-NetTCPConnection -State Established**