**2OPERATING SYSTEM (PRACTICALS) – FALL 2012**

**EXPERIMENT 1 – INTRODUCTION TO OPERATING SYSTEMS**

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| **Marks Obtained: \_\_\_\_\_** | | **COURSE: BESE 16 B** | | | |
|  | | **Instructor: Engr. Umar Mahmud** | | | |
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| 6. | Which Operating Systems have you used? Enlist.  **Solution:**   1. MS-DOS Prompt 2. Linux (Red Hat) 3. Windows | | | | (0.5) |
| 7. | Is Symbian an OS? Where is it used?  **Solution:**  The Symbian OS is the operating system developed and sold by Symbian Ltd. The OS is used primarily by Nokia with its S60 user interface and by Sony Ericsson with its UIQ user interface, but the Symbian OS is also used by a number of Japanese mobile phone manufacturers for handsets sold inside of Japan. With Nokia's acquisition of Symbian, the Symbian OS is to be spun off into as an open source product offered by the newly formed Symbian Foundation.  Ref : <http://www.mobileburn.com/definition.jsp?term=Symbian+OS> | | | | (0.25) |
| 8. | Is Android an OS? Where is it used?  **Solution:**  **Yes, Android** is a [Linux](http://en.wikipedia.org/wiki/Linux)-based [operating system](http://en.wikipedia.org/wiki/Mobile_operating_system) designed primarily for touch screen mobile devices such as smart phones and [tablet computers](http://en.wikipedia.org/wiki/Tablet_computer), developed by [Google](http://en.wikipedia.org/wiki/Google) in conjunction with the [Open Handset Alliance](http://en.wikipedia.org/wiki/Open_Handset_Alliance). Initially developed by Android Inc, whom Google financially backed and later purchased in 2005. | | | | (0.25) |
| 9. | **Disk Operating System (DOS)**: DOS is a single task batch OS. It has a Command-Line Interface (CLI) that allows the user to perform different tasks. DOS was developed for IBM compatible machines in 1981. | | | |  |
| 10 . | Press Windows key + r and type cmd. What was the outcome?  **Solution:**  While pressing Windows “key + r”  (without the quotation marks), “Run” box will appear and typing “cmd” and pressing Enter into the run box, The “Command Prompt” will open. | | (0.25) |
|  |  | | | |  |
| 14. | Is DOS Case-Sensitive? (True/False)  **Solution:**  DOS is not a Case-Sensitive. | | | | (0.25) |
| 15. | Do DOS allow two tasks to be done simultaneously? Give comments?  **Solution:** No, because MS-**DOS** is primarily a single-tasking environment. | | | | (0.5) |
| 16. | Type CALC. What is the outcome?  **Solution** Calculator application will get start. | | | | (0.25) |
| 17. | What happens when we type IPCONFIG? What happens when IPCONFIG/ALL is typed? **Solution:**   * **- IPCONFIG**  (internet protocol configuration) in Microsoft Windows is a console application that displays all current TCP/IP network  configuration values and refreshes Dynamic Host Configuration Protocol DHCP and Domain Name System DNS settings. Used without parameters, **ipconfig** displays the IP address, subnet mask, and default gateway for all adapters. * **- /ALL** Displays the full TCP/IP configuration for all adapters. Without this parameter.   Other parameters are **/renew** **[** ***Adapter* ] , /release** **[** ***Adapter*], /displaydns**, **/registerdns,  /showclassid**  ***Adapter*,  /setclassid**  ***Adapter* [** ***ClassID* ], /?** etc**.** | | | | (0.25) |
| 19. | **Windows** is a graphical, multi-tasking OS developed by Microsoft since 1985. | | | |  |
| 20. | **Task Manager**: Open the task manager and enlist what all information is shown. Write the titles of the tabs and the information provided under these tabs. Show the PID for each process in the Processes Tab.  **Solution:** Task manager can be opened by   * Alt + Ctrl + del Enter * Ctrl + Shift + Escape * Through Windows Properties etc.   Task manager provide information about the [processes](http://en.wikipedia.org/wiki/Process_(computing)) and programs running on a [computer](http://en.wikipedia.org/wiki/Computer), as well as the general status of the computer. It can also be used to terminate processes and programs, as well as change the processes [priority](http://en.wiktionary.org/wiki/priority). It can display currently running services (processes) as well as those that were stopped. They can display information about the services (such as Process ID and group) if known.  Task manager process id(PID) in process Tab | | | | (1) |
| 22. | Terminate the process WINWORD.EXE. What was the effect?  **Solution** Opened Office Word File was closed. | | | | (0.5) |
| 23. | In the Performance Tab, What are the current CPU usage and the PF Usage?  **Solution** CPU usage 36 %. Page Fault Usage is 709 MB. | | | | (0.25) |
| 24. | In the users tab? Who all are the current users? Can users be switched in windows? If so how?  **Solution** Only Administrator User is active. Yes, switching of user is allowed in windows, its allowd in windows. | | | | (0.5) |
| 25. | What is the total number of Handles, Threads and Processes currently on your machine? Where did you find it?  **Solution** Handles are variables,these are , 14123 Threads,and it’s a smaller version of a process,(Multi threading system, multi processing system). Processes are 36 in number. | | | | (0.5) |
| 26. | **Disk Manager**: Right click on My Computer and select Manage. Go to storage and then Disk Management. What is displayed?  **Solution:** (diskmgmt.msc)  Disk Management is used to manage the drives installed in a computer - like [hard disk drives](http://pcsupport.about.com/od/componentprofiles/p/p_hdd.htm) (internal and external), [optical disk drives](http://pcsupport.about.com/od/componentprofiles/p/p_odd.htm), and [flash drives](http://pcsupport.about.com/od/termsag/g/flashdrive.htm).it can be used to [partition](http://pcsupport.about.com/od/termsp/g/partition.htm) drives, [format](http://pcsupport.about.com/od/termsf/g/format.htm) drives, assign drive letters, and much more. | | | | (0.25) |
| 27. | **Disk Defragmenter**: Check to see which disks need to be defragmented?  Shortcut key for this is “dfrg.msc”, Disk Defragmenter will be opened, containing different options and tabs like analyze, Defragment, pause and all the storage partitions are aslo displayed with showing complete details about the partitions. | | | | (0.25) |
| 28. | **Device Manager: (**devmgmt.msc**)**Select device manager. Disable and then Enable the sound driver. What facility is provided in Device Manager?  **Solution:** The Device Manager is a [Control Panel](http://en.wikipedia.org/wiki/Control_Panel_%28Windows%29) [applet](http://en.wikipedia.org/wiki/Applet) in [Microsoft Windows](http://en.wikipedia.org/wiki/Microsoft_Windows) operating systems. It allows users to view and control the hardware attached to the computer. When a piece of hardware is not working, the offending hardware is highlighted for the user to deal with. The list of hardware can be sorted by various criteria.  For each device, users can:   1. Supply [device drivers](http://en.wikipedia.org/wiki/Device_driver) for the hardware 2. Enable or disable devices 3. Tell Windows to ignore malfunctioning devices 4. View other technical properties | | | | (0.5) |
| 29. | What are the specifications of your mobile phone? Write the Make, Model, and the OS.  **Solution:** (\*#0000#”) , specifications are Nokia 100 v 03.25, RH-130 (c) Nokia Language:IJ, Os is firmware. | | | | (0.25) |
| 30. | Describe how can you get the MAC address of your mobile phone? Write the command/procedure and the MAC address  **Solution:** my mobile phone doesnt have wifi and mac-addresses.  Method is to Main Menu, Settings, About/Phone Status, there you see complete details phones. | | | | (0.5) |
| 31. | **Ubuntu:** Ubuntu is a free, open-source, graphical, multi-tasking Linux-distribution. | | | |  |
| 33. | **System Monitor:** This tool is the equivalent of task manager in windows. Identify what all information is displayed in System Monitor.  **Solution:** (perfmon.msc or perfmon.exe)  System Monitor (sysmon.exe) is a program in Windows 95, 98 and Me that is used to monitor various activities on a computer such as CPU usage or memory usage. The equivalent of System Monitor on Windows 2000 and XP is called Performance Monitor. | | | | (0.5) |
| 34. | Which is better System Monitor or Task Manager? Give your thoughts.  **Solution:** System monitor is more capable and user friendly than Task Manager. | | | | (1) |
| 35. | Use the Device Manager in Ubuntu. Disable and Enable the Sound Driver. What facility is provided in Device manager?  **Solution:**  I can’t see Task Manager in Ubuntu. From internet i have got some information like:-  If your computer has two sound devices, you can disable one in Ubuntu using the operating system's Preferences menu.  **Instructions**   * + 1. Click the "Preferences" menu at the top of the Ubuntu desktop, and then click   + "Sound."  1. Click the "Hardware" tab in the "Sound Preferences" window.    * 3. Click the sound device that you want to disable under "Choose a device to configure."    * 4. Click the drop-down menu under "Settings for the selected device" and then click   "Off."  5. Click the "Close" button. | | | | (0.5) |
| 35. | What did you learn in this experiment?  **Solution:**  This lab has revised my old knowledge, but most of the questions have enhanced it.  New things are detail knowledge about the working of Task Manager, Difference between System Monitor and Task Manager, new experience about installing ubuntu other than Win-7 or Win-XP, OS of mobiles, different specification, | | | | (1) |