**Roll No…………….. Total No. of Pages:……**

**Linux System Administration**

**Time allowed: 90 Minutes Max. Marks: 40**

**General Instructions:**

* **Follow the instructions given in each section.**
* **Make sure that you attempt the questions in order.**

**SECTION-A (10\*1 mark=10 marks)**

***(All questions are compulsory)***

**Q1 The location for subdirectories for local programs and executables for user and**

**administrative commands is:**

**(a) /usr**

(b) /tmp

(c) /opt

(d) /mnt

(e) None of the above

**Q2 LILO**

(a) stands for Linux boot loader

(b) is the Linux boot process

**(c) is a tool used to boot the Kernel on x86 hardware**

(d) All of the above

(e) None of the above

**Q3 Which of the following tool is used to partition your hard drive?**

(a) mkfs

**(b) fdisk**

(c) fsck

(d) mount

(e) None of the above

**Q4 What command can be used to get information about yourself?**

(a) which

(b) pwd

(c) i/4

(d) who am i

**(e) None of the above**

**Q5 Which of the following file allows the user to change the GUI with networking?**

(a) graphics.target

(b) graphic.target

**(c) graphical.target**

(d) multi.target

(e) None of the above

**Q6 What command is used to halt a Linux system?**

(a) init 01

(b) Shutdow –t

(c) Shutdown - -y0

(d) Ctrl+Alt+Del

(**e) poweroff**

**Q7 CentOS developed & supported by**

(a) Sun Microsystems

(b) AT&T

**(c) Red Hat**

(d) Sun and AT&T jointly

**Q8 Which of these is not a Linux Flavor?**

**(a) FreeBSD**

(b) CentOs

(c) PopOs

(d) Suse

**Q9 Which of the following statement is FALSE?**

(a) Linux supports multiple users

(b) Linux is an open source operating system and the source code is shared

**(c) Shell perform process based operations with communication of process**

(d) Shell provides the feature of I/O Redirection

**Q10 Which of the following Linux flavor is from canonical ?**

(a) BSD

(b) Manjaro

**(c) Ubuntu**

(d) RHE

**SECTION-B (5\*2 mark=10 marks)**

***(All questions are compulsory)***

**Q11 Which among the following is used to write small programs to control Linux**

**functionalities?**

(a) Shell Commands

**(b) Shell Script**

(c) Filters

(d) C Language

**Q12 What control character signals the end of the input file?**  
(a) ctrl + a  
(b) ctrl + b  
(c) ctrl + c  
**(d) ctrl + d**

**Q13 How do the user gets the help about the command “echo”?**(a) help echo  
**(b) man echo**  
(c) echo?

**Q14 CentOS7 Linux kernel is?**  
**(a) Monolithic**  
(b) micro  
(c) Exo  
(d) nano

**Q15 To increase the response time and throughput, the kernel minimizes the frequency of disk  
 access by keeping a pool of internal data buffer called**(a) Pooling  
(b) Spooling  
**(c) Buffer cache**  
(d) Swapping

**SECTION-C() (4x5 marks=20 marks)**

**Q16 Riya want to use console when she login linux ,help her to check current runlevel and**

**Switch runlevel to current to console with networking:**

**Ans**

#su

#systemctl get-default

#systemctl list-units --type=target

#systemctl set-default multi-user.target

**Q17 Write the booting process of the Linux Operating System.**

**Ans**

The following steps summarize how the boot procedure happens in RHEL/CentOS 7.

1)The computer’s BIOS performs POST.

2)BIOS reads the MBR for the bootloader.

3)GRUB 2 bootloader loads the vmlinuz kernel image.

4)GRUB 2 extracts the contents of the initramfs image.

5)The kernel loads driver modules from initramfs.

6)Kernel starts the system’s first process, systemd.

7)The systemd process takes over. It:

Reads configuration files from the /etc/systemd directory

Reads file linked by /etc/systemd/system/default.target

Brings the system to the state defined by the system target

Executes /etc/rc.local

**Q18 Myra install Lampp on CentOS7 she want to create index.html file in /opt/lampp/htdocs/ , but**

**File not save on that location,help her to save file on /opt/lampp/htdocs/**

**Ans**

**>su**

**#chown -R myra:myra /opt/lampp/htdocs**

**Q19 Amit want to list out all “.socket” files from centOS7,help him to list out soket files**

**Ans**

**>su**

**#ls -l /\* |grep ^s** ^-