BRAINWARE UNIVERSITY

Term End Examination 2022
Programme – B.Sc.(ANCS)-Hons-2020
Course Name – Linux Engineering
Course Code - BNCSC501
(Semester V)

Full Marks : 60

Time : 2:30 Hour

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)   1 x 15=15

1. *Choose the correct alternative from the following :*

(i) Select which of the following is not a valid runlevel?

a) 1   b) 8
c) 4   d) 3

(ii) Examine which is not SELinux modes

a) enforcing   b) permissive
c) disabled   d) enabled

(iii) Recognize which type of record is not stored in forward lookup zone?

a) A   b) PTR
c) CNAME   d) MX

(iv) Indicate Which command is used to edit user quotas?

a) quota   b) quotaon
c) edquota   d) vi

(v) Select which among the following interacts directly with system hardware?

a) Shell   b) kernel
c) command   d) Application

(vi) Select Application layer is implemented in _____

a) End system   b) NIC
c) Ethernet   d) Packet transport

(vii) Choose where the encypted password of an user will store?

a) /etc/shadow   b) /etc/passwd
c) /etc/enpasswwd   d) /etc/passwde

(viii) Chose which one of the following command is used for searching for a pattern in one or more file(s)?

a) cd   b) cp
c) grep   d) find

(ix) Choose the company name ,who developed SMB

a) IBM   b) INTEL
c) MICROSOFT   d) 2COM

(x) Select How can we restart iptables tools in Linux
                                    b) service iptables start
   a) service iptables on
                                      d) None of these
   c) service iptables restart

(xi) Select the Single user mode shell runs as _____.
                                    b) Root user
   a) Admin user
                                    d) Log user
   c) Normal user

(xii) Select CIFS runs over the which protocols?
                                    b) SNMP
   a) TCP/IP
                                    d) DNS
   c) FTP

(xiii) Choose NFS & CIFS are _____
                                    b) Transport protocols
   a) File systems
                                    d) File access protocols
   c) Operating systems

(xiv) solve what is the keyword used to define a Mail Server?
                                    b) NS
   a) CNAME
                                    d) PTR
   c) MX

(xv) Recognize which type of broadcast DHCP client and servers on the same subnet communicate
                                    b) TCP broadcast
   a) UDP broadcast
                                    d) TCP unicast
   c) UDP unicast

Group-B
(Short Answer Type Questions)
(Answer any Five from the following)   3 x 5=15

2. Write how to install the RPM package with example.   (3)

3. Write the different types of RPM & how to check RPM in your system.   (3)

4. Illustrate the significance of 'edquota' command with a suitable example.   (3)

5. Classify the terms 'SOA', 'PTR', 'MX', 'CNAME' and 'A'   (3)

6. Justify the function of /etc/resolv.conf file.   (3)

OR
Express the significance of DHCP reservation?   (3)

Group-C
(Long Answer Type Questions)
(Answer any Six from the following)   5 x 6=30

7. Analyze the concept NFS & Explain it with suitable example.   (5)
8. Discuss about the differences between IPv4 & IPv6 addressing.   (5)
9. Describe What is the way to install, update and query packages using RPM & differentiate (5)
   Delete & remove package
10. What are the default ports used for SMTP, DNS, FTP, DHCP, SSH, and squid?   (5)
11. Explain each and every field within /etc/fstab file with suitable example.   (5)
12. Summarize the concept of Selinux & different security threats in Linux   (5)
OR
Evaluate what is Boolean & different modes in Selinux with a suitable example.   (5)