



Library
Brainware University
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BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Sc.(ANCS)-Hons-2020

Course Name – Linux Engineering

Course Code - BNCSC501

(Semester V)

Full Marks : 60

Time : 2:30 Hours

[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) State which protocol translates internet domain and host names to IP address
- | | |
|--------|--------|
| a) DNS | b) NTP |
| c) RIP | d) RDP |
- (ii) State the IP assigned for a client by DHCP server is
- | | |
|----------------------------|-----------------------|
| a) for a limited period | b) not time dependent |
| c) for an unlimited period | d) none of the above |
- (iii) Define the command to configure network in Linux
- | | |
|-------------|--------------|
| a) setup | b) setconfig |
| c) ifconfig | d) ipconfig |
- (iv) Indicate Which command is used to check filesystem usage in a system?
- | | |
|----------|-------|
| a) mount | b) du |
| c) df | d) dd |
- (v) Classify which is the only partition mounted in Single user mode
- | | |
|---------|---------|
| a) boot | b) root |
| c) usr | d) tmp |
- (vi) Select In the OSI model, as a data packet moves from the lower to the upper layers, headers are _____
- | | |
|---------------|---------------|
| a) Added | b) Removed |
| c) Rearranged | d) Randomized |
- (vii) Choose how to check the updates for yum repository?
- | | |
|---------------------|---------------------|
| a) yum check | b) yum check-update |
| c) yum update-check | d) None of these |
- (viii) Choose Host specific configuration files are installed in
- | | |
|--------------------|--------------------|
| a) /etc/ directory | b) /bin/ directory |
| c) /var directory | d) /dev directory |
- (ix) Choose the full form of YUM

- a) Yellow Update Manager
c) Yellow Uninstall Manager
- (x) To quit vi editor without saving the buffer we select
a) :q
c) :c
- (xi) Select when the system is booted, then which of the following is loaded in memory?
a) shell
c) kernel
- (xii) Select CIFS is used in the following OS
a) Windows
c) Unix
- (xiii) Select, NFS stands for
a) Null File System
c) New File System
- (xiv) Express What is the name of configuration file that could resolve host names to IP Address locally?
a) /etc/host
c) /etc/host.conf
- (xv) To update yum repo we write
a) yum install
c) yum update
- b) Yellow Upload Manager
d) None of these above
- b) :w
d) :q!
- b) scripts
d) commands
- b) Netware
d) All the above
- b) Network File System
d) Netware File Server
- b) /etc/hosts
d) /etc/hostname
- b) yum repo update
d) yum info

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Write How information can a DHCP server provide to a host. (3)
3. Illustrate the difference between A record and CNAME record in DNS? (3)
4. Illustrate 'erase' and 'remove' command in yum with suitable example (3)
5. Describe the following paths: (i) /etc/sysconfig/network (ii) /etc/sysconfig/network-scripts /ifcfg-eth0 (3)
6. Express the way to mount a NFS file system permanently with an example (3)
- OR
- Write about the DNS Zone. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Illustrate the utility of MAC binding with proper example? (5)
8. Explain Linux file system with suitable diagram. (5)
9. Explain the utility of SAMBA server & How can you share a directory using it. (5)
10. Define the significance of aquota.user and aquota.group with proper example (5)
11. Discuss about the IPv4 address scheme along with classifications & subnet masks. (5)
12. Summarize how to save Iptables Rules or Setting & Explain the Filter Table in Iptables. (5)
- OR
- Summarize the concept of Selinux & different security threats in Linux (5)
