

B.C.A Semester - 4 (CBCS) Examination**March/April-2023 [OLD COURSE]****CS-22 OPERATING SYSTEMS CONCEPTS WITH UNIX/LINUX(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Q.1(A) Answer the following questions. (04)**
1. Full form of RR in algorithm is ...
 2. Full form of SJN is ...
 3. ... is the basic function in memory management in OS
 4. Full form of PCB is ...
- Q.1(B) Answer the following questions. (Any One) (02)**
1. Explain : Memory Allocation
 2. Explain : Virtual Memory
- Q.1(C) Answer the following questions. (Any One) (03)**
1. Explain Process state diagram.
 2. Explain FCFS and SJN.
- Q.1(D) Answer the following questions. (Any One) (05)**
1. Explain Types of OS (Feature point of view)
 2. Explain Paging and Segmentation.
- Q.2(A) Answer the following questions. (04)**
1. Define: cat command
 2. Define: pwd command
 3. Define: chown command
 4. Define: chmod command
- Q.2(B) Answer the following questions. (Any One) (02)**
1. Define Bourn Shell and Korn Shell.
 2. Explain head command and tail command.
- Q.2(C) Answer the following questions. (Any One) (03)**
1. Explain: Redirection and Piping.
 2. Explain: grep, fgrep and egrep.
- Q.2(D) Answer the following questions. (Any One) (05)**
1. Explain unix architecture.
 2. Explain vi editor.
- Q.3(A) Answer the following questions. (04)**
1. Full form of LILO is ...
 2. Full form of GRUB is ...
 3. Full form of IFS is
 4. Full form of GPL is ...
- Q.3(B) Answer the following questions. (Any One) (02)**
1. Explain for loop with its syntax.
 2. Explain while loop with its syntax.

- Q.3(C) Answer the following questions. (Any One) (03)**
1. Write a note on: History of Linux.
2. Explain: GUI, CUI and GPL.
- Q.3(D) Answer the following questions. (Any One) (05)**
1. Write a shell script to display reverse of entered number.
2. Explain installation and configuration of Linux (Using Ubuntu).
- Q.4(A) Answer the following questions. (04)**
1. Define: Xorg.conf
2. Define: startx command
3. Full form of KDE is ...
4. Full form of GUI is ...
- Q.4(B) Answer the following questions. (Any One) (02)**
1. Write a short note on Window manager.
2. How can configure the xorg.conf file?
- Q.4(C) Answer the following questions. (Any One) (03)**
1. How window manager works on KDE desktop environment?
2. How window manager works on GNOME desktop environment?
- Q.4(D) Answer the following questions. (Any One) (05)**
1. Explain KDE panel.
2. Explain GNOME desktop.
- Q.5(A) Answer the following questions. (04)**
1. Full form of FTP is ...
2. Full form of DNS is ...
3. Firewall is meant for network security (True/False)
4. Linux supports .exe format by default (True/False)
- Q.5(B) Answer the following questions. (Any One) (02)**
1. Explain LDAP service.
2. Explain samba server.
- Q.5(C) Answer the following questions. (Any One) (03)**
1. Explain FTP service.
2. Explain Apache server.
- Q.5(D) Answer the following questions. (Any One) (05)**
1. Explain WINE software.
2. How to create and manage linux user account and password?
