

**B.Sc.(IT) 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. ECB Stands for.....
  2. PCB Stands for.....
  3. RR Stands for.....
  4. RTOS Stands for.....
- Q.1(B) Answer the following questions. (Any One) (02)**
1. Explain Virtual Memory Allocation.
  2. Explain FCFS.
- Q.1(C) Answer the following questions. (Any One) (03)**
1. Explain Round Robin in Brief.
  2. Explain Multitasking OS with advantage and disadvantage.
- Q.1(D) Answer the following questions. (Any One) (05)**
1. Explain Contiguous Memory allocation in brief.
  2. Explain Five states process diagram.
- Q.2(A) Answer the following questions. (04)**
1. Explain SORT command.
  2. Explain LS command.
  3. Explain Join command.
  4. Explain WC command.
- Q.2(B) Answer the following questions. (Any One) (02)**
1. Explain chmod command with options.
  2. Explain UMask command.
- Q.2(C) Answer the following questions. (Any One) (03)**
1. Explain Unix OS Architecture.
  2. Explain Types of Shell.
- Q.2(D) Answer the following questions. (Any One) (05)**
1. What is file? Explain ordinary File and directory file and device file.
  2. Explain grep, egrep and fgrep command with example.
- Q.3(A) Answer the following questions. (04)**
1. GUI Stands for.....
  2. What is System variable?
  3. Explain Relational operator.
  4. If terminated with\_\_\_?
- Q.3(B) Answer the following questions. (Any One) (02)**
1. Explain echo and read command.
  2. Explain test command.
- Q.3(C) Answer the following questions. (Any One) (03)**
1. Explain for loop with example.
  2. Explain GPL in detail.

- Q.3(D) Answer the following questions. (Any One) (05)**
1. Write a shell script to enter a number and check that number is positive, Negative or zero.
  2. Explain Positional Parameter in detail.
- Q.4(A) Answer the following questions. (04)**
1. BIOS Stand for.....
  2. KDE stand for.....
  3. GNOME stands for.....
  4. What is open source software?
- Q.4(B) Answer the following questions. (Any One) (02)**
1. Explain X-Windows.
  2. Explain Xfce Desktop.
- Q.4(C) Answer the following questions. (Any One) (03)**
1. Explain KDE Desktop panel.
  2. Explain GNOME Desktop panel.
- Q.4(D) Answer the following questions. (Any One) (05)**
1. Write step to install Linux (UBUNTU).
  2. What is Window Manager? Explain types of window manager.
- Q.5(A) Answer the following questions. (04)**
1. LDAP Stands for.....
  2. FTP Stands for.....
  3. NIS Stands for.....
  4. DNS Stands for.....
- Q.5(B) Answer the following questions. (Any One) (02)**
1. Explain FTP Server.
  2. Write a sort note on Firewall.
- Q.5(C) Answer the following questions. (Any One) (03)**
1. How to configure Samba Server?
  2. How to configure Apache Server?
- Q.5(D) Answer the following questions. (Any One) (05)**
1. What is WINE? How to configure WINE in Linux Environment?
  2. How to create and manage Linux user account and password.

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