

B.Sc.(IT) Semester - 4 (CBCS) Examination**March/April-2024 [NEW COURSE]****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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| Que-1(A) | Answer followings: | (03) |
| | <ol style="list-style-type: none">1. What is OS?2. Full form of FCFS.3. Full form of SJN. | |
| Que-1(B) | Answer the following: (Any Two) | (06) |
| | <ol style="list-style-type: none">1. Explain term Preemptive Scheduling.2. Explain types of OS.3. Explain FCFS Scheduling Policy.4. Explain Round Robin Scheduling Policy. | |
| Que-1(C) | Answer the following: (Any One) | (05) |
| | <ol style="list-style-type: none">1. Explain functions of OS in detail.2. Explain Process state transition diagram in detail. | |
| Que-2(A) | Answer followings: | (03) |
| | <ol style="list-style-type: none">1. Full form of PWD.2. Full form of EGREP.3. _____command is use to count the number of lines in the files. | |
| Que-2(B) | Answer the following: (Any Two) | (06) |
| | <ol style="list-style-type: none">1. Explain types of shell in detail.2. Explain modes of VI editor in detail.3. Explain File / Directory related commands.4. Explain Cut, Paste and Join commands in detail. | |
| Que-2(C) | Answer the following: (Any One) | (05) |
| | <ol style="list-style-type: none">1. Explain Unix Architecture in detail.2. Explain cursor movements of Vi editor in detail. | |
| Que-3(A) | Answer followings: | (03) |
| | <ol style="list-style-type: none">1. Full form of GPL.2. Full form of GNU.3. Full form of IFS. | |
| Que-3(B) | Answer the following: (Any Two) | (06) |
| | <ol style="list-style-type: none">1. Explain While and Until loop with syntax.2. Explain if and elif with example and syntax.3. Explain shell variables in detail.4. Explain history of Linux. | |
| Que-3(C) | Answer the following: (Any One) | (05) |
| | <ol style="list-style-type: none">1. Write a Program to identify the number is Armstrong or not.2. Write a note on Linux OS features. | |
| Que-4(A) | Answer followings: | (03) |
| | <ol style="list-style-type: none">1. GNOME stands for_____.2. BIOS stand for_____.3. CDE stand for_____. | |

- Que-4(B) Answer the following: (Any Two) (06)
1. Explain GNOME desktop in detail.
 2. Explain XFCE desktop in detail.
 3. Explain KDE desktop in detail.
 4. Explain startx command in detail.
- Que-4(C) Answer the following: (Any One) (05)
1. Explain window manager in detail.
 2. What is Xorg.conf file? How to configure it?
- Que-5(A) Answer followings: (03)
1. Full form of DNS.
 2. Full form of LDAP.
 3. Full form of FTP.
- Que-5(B) Answer the following: (Any Two) (06)
1. Explain DNS service.
 2. Explain FTP service.
 3. How to optimize LDAP services
 4. Explain working of WINE
- Que-5(C) Answer the following: (Any One) (05)
1. How to create and manage Linux user account and password.
 2. Explain installing and managing Apache server.
