SUB: OPERATING SYSTEMS CONCEPTS WITH UNIX/LINUX (CS-22)   **MARKS**: 70

Q.1 A	Attempt the following	4 Marks
1)	Which concept of data structure can relate to contiguous memory allocation?	
2)	Which concept of data structure can relate to non-contiguous memory allocation?	
3)	Primary memory divided into equal size blocks is called _____.	
4)	When process needs input/output then it will move in _____ state.	
Q.1 B	Answer in brief (Any 1 out of 2)	2 Marks
1)	Differentiate preemptive and non-preemptive scheduling.	
2)	Explain best fit memory management technique with example.	
Q.1 C	Answer in detail (Any 1 out of 2)	3 Marks
1)	What is OS? List out its features.	
2)	Explain Process State Transition.	
Q.1 D	Attempt the following (Any 1 out of 2)	5 Marks
1)	Write a note on OS types (Both from user and features point of view).	
2)	List out Process scheduling policies and explain any one policy with calculations (Calculate Average Waiting and Turnaround Time).	
Q.2 A	Attempt the following	4 Marks
1)	Bourne shell is invented by _____.	
2)	To transfer output of a command as an input to another command, _____ is used.	
3)	Korn shell was invented by _____.	
4)	Which is the default directory to store device files in UNIX?	
Q.2 B	Answer in brief (Any 1 out of 2)	2 Marks
1)	Write a note on types of shell.	
2)	List out and explain mathematical calculations commands.	
Q.2 C	Answer in detail (Any 1 out of 2)	3 Marks
1)	Explain concept of mounting a file system (mount command) in Unix.	
2)	Write a note on commands used for working with columns and fields in linux.	
Q.2 D	Attempt the following (Any 1 out of 2)	5 Marks
1)	Draw and explain UNIX architecture.	
2)	Write a note on cursor movement in vi editor.	
Q.3 A	Attempt the following	4 Marks
1)	To enter into insert mode in vi editor, one has to press _____ key.	
2)	_____ loop will run until condition becomes true.	
3)	Full form of GRUB is _____.	
4)	_____ positional parameter gives you count of total number of arguments.	
Q.3 B	Answer in brief (Any 1 out of 2)	2 Marks
1)	Differentiate concept of freeware and open source.	
2)	List out and explain any one decision making statements.	
Q.3 C	Answer in detail (Any 1 out of 2)	3 Marks
1)	Write a note on positional parameters with example.	
2)	Differentiate GUI and CUI.	
Q.3 D	Attempt the following (Any 1 out of 2)	5 Marks
1)	Write shell script to check whether entered number is odd or even.	
2)	List out and explain any two iterative statements.	

Q.4 A	Attempt the following	4 Marks
1)	Write command to add user named xyz in Unix.	
2)	Widgets is combination two words and they are _____ + _____.	
3)	_____ is the command used to delete a file.	
4)	_____is system software that controls the placement and appearance of windows within a windowing system in a GUI.	
Q.4 B	Answer in brief (Any 1 out of 2)	2 Marks
1)	Write commands to install and uninstall software on UNIX.	
2)	Write a note on GNOME Desktop.	
Q.4 C	Answer in detail (Any 1 out of 2)	3 Marks
1)	Write a note on purpose of window manager.	
2)	Write a note on KDE Desktop.	
Q.4 D	Write a note on (Any 1 out of 2)	5 Marks
1)	Write a note on how to configure Xorg.conf file.	
2)	Write a note on Layered Structure of X.	
Q.5 A	Attempt the following	4 Marks
1)	What is wine used for?	
2)	What is the meaning of sudo?	
3)	Full form of DNS is _____.	
4)	Full form of UFW is _____.	
Q.5 B	Answer in brief (Any 1 out of 2)	2 Marks
1)	Write a note on UFW.	
2)	Write a note on LDAP services.	
Q.5 C	Answer in detail (Any 1 out of 2)	3 Marks
1)	Explain DNS services.	
2)	Write a note on installing and managing samba server.	
Q.5 D	Attempt the following (Any 1 out of 2)	5 Marks
1)	Explain FTP service.	
2)	Write a note on installing and managing apache server.	