source monagen Justify the following, process con exercise crude control of their scheduling priority by using nice() system call candian in notifibbo uno tan The Kernal implements a fair-share scheduling a algorithm that gives process a share of cpul time based on priorities ossigned to them depending on the notine of the task, High Br priority process get scheduled more often and receive more you time but the process con exercise crude control of its scheduling by using the system roll nice () os follow. process priority is the function of this nice value mono poison mon process priority = recent CPU Usage la constant + base priority + nice value this olgorithm gives olgorithm group A twire the slot of group B, their times that of condi four Hime-that OFD, where user processes are group by priority. andonination is before

Justify the following process o and process I ensist through the lifetime of the swam

True.

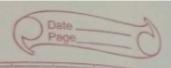
The pID ois reserved for the swapper process and I for the init process the stortup fun for the kennal established memory management, detects the tupe of cpu and any additional functionality. such as Floating point capobilities & then switches to non orchitecture specific · Linux Kernal Functionality via conto stort - kernal () inilis the forther of the process.

Justify the following. At the Kernal level support for the projected process is your fold.

At the kernal level support for protected Process is two fold First, the bulk of process creation occours in kernal mode to avoid injection ottacks second protected process have special bit set in their EPROCESS Structure that modified the behaviour of security related routines in the process manager to dery certain access rights that would normally be

anonted to administrators.

Justify the following. In Linux the file is usually occessed via file nomes. the ochuminy one not directly associated with such name instead, offile is referenced by on innote which is assigned a unique nummerical volue. this volue is colled inode number or ino. Tripon Liny euplain the behaviour of following progrem " " " " a bud" re is main () ('s' 's. 6 13") (10 m) Int status; if (Fork () == 0) evel ("/bin /dote", adate", o); wait (4 status); The fork system call in Linuxe unixe meates a new process. The New process inherits various properties from its parent that is Environmental voriables, file descriptors ex After a successful fork roll, two copies of the original rode will be running in the original process that is the powent the neturn volue of Fork will be the proofes 20 of the child in the New child process the netern value of fork will be o. when we tupe dote" on the unite lommand line, the command line interpreter



2 shells one running. 9. write o c program to open a file in write append mode the size of the file is n byter. At the Contloot by the same file write the string unix 36001 - 51103 27 SUBVESTILL 1.901 # include & stdio.h) Void main() welning the behaviour of Follow By int fd; chor *buf = "UNIX";

Fd = Open ("Filel.c", 'a'); 15 (Ed = = -1) perror ("error"); == () Hor) di I seek (Fd, O, SEEK - END); Ispek (Fd, 100, SEEK-CUR); write (Fd, buf, 5); rian (lose (fd): 1100 mostus

Hezi tothe seesond prospers