Knop adse valanas 2018113012 83) consider a system implementing multi-queue asystem implementing multi-queue can be solved if programs could maximise their CPU thre allocations by net july whizing its thre quantums. It is allowed to use rapority of the time quanture, as signed to it but should selease the CPV before the od by the quantums. This will increase the priproty of the process. By) Digense how the Jollowing pares of scheduling el) i) con utilization and sesponce time CPU utilization gets moreased if the overheads come with context switching can be reduced. This can be done by performing these context suitches in bequently but an increasing increasing impact by increasing impact by the process'es sesponse time ii) yo device whization and CPU whisation we can maximize CPU utilisation by mining long CPU-bound Jasks with no context switches whereas 1/0 device utilisation these 1/0, is maximised by scheduling to jobs as soon as they are seady to min which ends up conflicting con while after as it in Greases content switches

2018113012 Q1) UNIX is unsurtable for seal-time applicators because a porces act) As the process running in kernel mode may not get intersupted, it be comes impossible for the Operating suptom to seapond or apidly to seal-time requirements. Processes onning under cornel mode connet be preempted. .. Disable all interrupts to come processing sys calls. system call more booksour in user mode > Ineta Parance uctors signess here - Fice 9 0750 SIVANU 199 1: UNIX Kernel mole (2) Atmo charges uses priority based seneduling too the critical 301) i) Interactive processes & These interact core tently with the user and .: spend a cost of the time wouting for beyonesses and mouse opposition. When input is secented, the process must be woken up quickly on the voer will that the eysten to be imespossive. Typically the average delay must be bounded 00 the user will believe that there is a one i) Boutch room coss & As they do not need much wer interaction they took to mad in the background. Scheduler on penalise them as they need not have good sespone times

the sexpose three smuld be have minimum

the sexpose three smuld be priority, inimans.