Task scheduler and types of scheduler

URM

U=(2.5/5)+(4.5/15)+(3.5/20)=0.975

Urm=3(2^(1/3)-1)=0.779

u>urm

System is not scheduler

Time demand

T1 : w(1)=2.5+0=2.5

w(2)=2.5+0=2.5

w(3)=2.5+0=2.5

w(4)=2.5+0=2.5

w(5)=2.5+0=2.5

w(5) < D T1 is scheduler

T2 : w(1)=4.5+(1/5)*2.5=7

w(2)=4.5+(2/5)*2.5=7

w(3)=4.5+(3/5)*2.5=7

w(4)=4.5+(4/5)*2.5=7

w(5)=4.5+(5/5)*2.5=7

w(6)=4.5+(6/5)*2.5=10

w(7)=4.5+(7/5)*2.5=10

w(8)=4.5+(8/5)*2.5=10

w(9)=4.5+(9/5)*2.5=10

w(10)=4.5+(10/5)*2.5=10

w(11)=4.5+(11/5)*2.5=12

w(12)=4.5+(12/5)*2.5=12

w(13)=4.5+(13/5)*2.5=12

w(14)=4.5+(14/5)*2.5=12

w(15)=4.5+(15 /5)*2.5=12

w(15) < D T2 is scheduler

T3: w(1)=3.5+(1/5)*2.5+(1/15)*4.5=10.5

w(2)=3.5+(2/5)*2.5+(2/15)*4.5=10.5

w(3)=3.5+(3/5)*2.5+(3/15)*4.5=10.5

w(4)=3.5+(4/5)*2.5+(4/15)*4.5=10.5

w(5)=3.5+(5/5)*2.5+(5/15)*4.5=10.5

w(6)=3.5+(6/5)*2.5+(6/15)*4.5=13

w(7)=3.5+(7/5)*2.5+(7/15)*4.5=13

w(8)=3.5+(8/5)*2.5+(8/15)*4.5=13

w(9)=3.5+(9/5)*2.5+(9/15)*4.5=13

w(10)=3.5+(10/5)*2.5+(10/15)*4.5=13

w(11)=3.5+(11/5)*2.5+(11/15)*4.5=15.5

w(12)=3.5+(12/5)*2.5+(12/15)*4.5=15.5

w(13)=3.5+(13/5)*2.5+(13/15)*4.5=15.5

w(14)=3.5+(14/5)*2.5+(14/15)*4.5=15.5

w(15)=3.5+(15 /5)*2.5+(15/15)*4.5=15.5

w(16)=3.5+(16/5)*2.5+(16/15)*4.5=22.5

w(17)=3.5+(17/5)*2.5+(17/15)*4.5=22.5

w(18)=3.5+(18/5)*2.5+(18/15)*4.5=22.5

w(19)=3.5+(19/5)*2.5+(17/15)*4.5=22.5

w(20)=3.5+(20 /5)*2.5+(20/15)*4.5=22.5

w(20) >D T3 is not scheduler

system is not schedular

simso