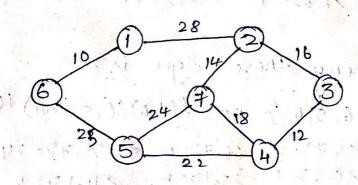
ADA Assignment 1BM19CS403

CHIEF WIFE DI

CHIRANJEEVI

Find the MST for Following graph wing. prim's algorithm



matrice for above 5 4 11.1720 $\infty \infty$ 28 16 22 00 18 21.3>= 100 4 DO _ 25 24 22 5 00 25000 100 10 10 0000 6 18 24 60 00 (8,11) T 1 00/ least arosing there

21.1>=0 11027 = 28 (1.3>= ∞ 16.5>=25 <1.4>= 6 < 6:6>= 0 21.5>= to 26.7>= ∞ 21. 7>=80

₹ 6.2>= ∞

< 6.3>= ∞

16.4>=∞

The least burning there ladges in 25 = {1,6,5} ET={(1.6)(1.5)}

edge is

VT={1.69 ET={(1.6)9

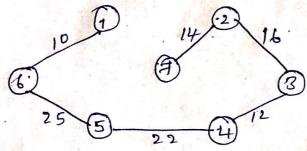
```
CHIRANITEEVI
    CHIEFT.
                       <b.7>=0
  <101>=01 <1.7>=0
                                     1BM19CS403
  <1.2>=28 <6.3>= to
                       < 5.1>= 6
                                25.50=0
                        <5.2>= 00 <5.77=24
   <1.3>= ₩ <6.3>= ₩
                        X5.3) = 10 11 11 11
    <1.4>= to <6.4>= to
                       15.4>=22
    <105>=0 (6.6>= D
The least among those edges is 22
   ... VT = {1,6,5,4 } ET = {(1,6)(6,5)(5,4)(4,3)}
  <1.15=0 <1.75=0 <6.75=0 $ <5.77=24
  <1.2 > 28 <6.2>= $\langle \langle 5.0 |>= \to
                                 24.17= 60
   <1.3>=∞ <6.3>= ∞ <5.2>= ∞
                                 24.2>= 60
   <1.4>= 00 <6.4>= 00 < 5.3>=00
                                 24.4>=0
                                  14.6>= ∞
            26.6>=0 <5.5>=0
   < 1.57= 10
                 23.6>=60
     < 4.7>=18
     < 3.1>= 60 < 3.7>= 00
     1 < 3.27=16
     C. 3. 37=0 11 7
    (3,57=0
  The houst among those Eolgu is 16
:. VI = {1.6, 5, 4, 3, 2 } ET = {(116) (6, 5)(5, 4) (4,3) (3,2) }
            <6.2>=∞ <5.2>=∞
                                  < 4,4>=0
 <101>=0
            (6.3)= ∞ (5.3)=∞
 K101>=28
                                   < 4.67= to
  21.37=00
             <6.4>=6 <5.5>=0
                                   < 4.7>= 18
   2104>= 00
            < 6.6>=0 < 5.77= 24
                                   <3.1>= 0
   21057=00
             < 6.7>= 0 < 4.1>= 00
                                  <3-3>= 0
    <1077= W
             (5.1>= 00 < 4.3>= 00
                                   <3.5>=100
                 < 2.6 >= ∞
  23.6750
                 <2.7>=14.
  1 <3.77 = 60
     (2.1)=28
     <2.2.7=D
      < 2.4> = ₩
     <2.5>= ₩
```

3) The least among those Edges in 14

or. VT = {1,6,5,4,3,2,7} & ET = {(1,6)(6.5)(5,4)(4.3)}

(3.2)(2.7) }

... The minimum last spanning thuis



The minimum cost 14: => 10+25+22+12+16+14 = 99 units