Ex 22

$$0 \qquad D[[5]] = [1/.00(0)] \qquad 5-71 = 14$$

$$D[[5], 5][6] = [32(2)]$$

$$6 \frac{12}{5} \frac{12}{5}$$

$$D[\{2,3,5\}][b] = [29(5)]$$

$$b = [23,5][b] = [29(5)]$$

$$b = [23,5][2] = [29(5)]$$

$$\frac{23}{6-7} \left[ \frac{3}{5} - \frac{3}{5} \left[ \frac{4}{5} \right] \right] = 1 \quad 23 + D \left[ \frac{23}{5} \left[ \frac{3}{5} \right] = \frac{5}{5} \left[ \frac{5}{5} \right]$$

$$\frac{1}{6-7} \left[ \frac{5}{5} - \frac{5}{5} \left[ \frac{23}{5} \right] \right] = 1 \quad 6 + D \left[ \frac{23}{5} \left[ \frac{2}{5} \right] \right] = 29(2)$$

0

$$D \{\{2_{1},3_{1},4_{1},3\} \{s\} = \{2_{5}(6)\}$$

$$S \xrightarrow{7} D\{\{3_{1},4_{1},3\} \}\{z\} = \{5\}(3),$$

$$S \xrightarrow{7} D\{\{3_{1},4_{1},3\} \}\{z\} = \{3_{5}(6)\}$$

$$S \xrightarrow{7} D\{\{2_{1},3_{1},4_{1},3\} \}\{u\} = \{4_{5}(6)\}$$

$$Y \xrightarrow{7} D\{\{2_{1},3_{1},4_{1},3\} \}\{u\} = \{4_{5}(6)\}$$

$$Q \xrightarrow{7} D\{\{2_{1},3_{1},4_{1},3\} \}\{u\} = \{3_{2}(2_{1})\}$$

$$Q \xrightarrow{7} D\{\{2_{1},3_{1},4_{1},3\} \}\{u\} = \{3_{2}(2_{1})\}$$

$$Q \xrightarrow{7} D\{\{3_{1},5_{1},6_{1},3\} \}\{u\} = \{1_{2}(2_{1})\}$$

$$Q \xrightarrow{7} D\{\{3_{1},5_{1},6_{1},3\} \}\{u\} = \{1_{2}(2_{1})$$

```
Optimal Path
7 35(3)
1-7 D(23,4,5,6,7) [2] = 7+35= 42
   0
         2 33(5)
1 -> 0[{2,4,5,6,7}][3] -2133 = 35
         11 32(6)
1->D[{2,3,5,6,7}][4]=11+32 =43
         14 28(7)
1-7 D[{27,3,4,6,7}][5] = 14+28 = 42
         9
17D[{27,3,4,5,}}[6] = 1+23 - /32(6)
          5
1-> D[ \( \frac{2}{2}, \frac{3}{4}, \frac{6}{3} \) [7] = 5+30 = 35
    Optimal path is 32(6)
              Which is 1-26 -75-77-74-72-73-71
```