Problem Olgraphical form Solution Overall goal choice the most remanding career Criteria Benefits advancement Cocation Training decision Joba JobA JobA JobA Alternatives JobB JobB Job B Job B Jobc Jobc Jobc Jobc Solution T0.0769 0.0852 0.0588 0.06907 0.0725 0.538 0.597 0.588 0.621 0.586 0.154 0.119 0.118 0.103 0.124 0.199 0.235 0.207 0.218 13 1-676 8.5 4.833 $= 0.0725 \times \begin{bmatrix} 1 \\ 7 \\ 2 \\ 3 \end{bmatrix} + 0.586 \times \begin{bmatrix} 1/7 \\ 1/5 \\ 1/3 \end{bmatrix} + 0.124 \times \begin{bmatrix} 1/2 \\ 5 \\ 1 \\ 2 \end{bmatrix} + 0.218 \times \begin{bmatrix} 1/3 \\ 3 \\ 1/2 \end{bmatrix}$ $= \begin{bmatrix} 0.0725 \times \begin{bmatrix} 1/2 \\ 5 \\ 1/3 \end{bmatrix} + 0.218 \times \begin{bmatrix} 1/3 \\ 1/2 \end{bmatrix}$ $= \begin{bmatrix} 0.0725 \times \begin{bmatrix} 1/2 \\ 5 \\ 1/3 \end{bmatrix} + 0.218 \times \begin{bmatrix} 1/3 \\ 1/2 \end{bmatrix}$ $= \begin{bmatrix} 0.495 \\ 0.495 \\ 0.879 \end{bmatrix}$

0.291/0.0725 = 4.014
2.368/0.586 = 4.04|
0.495/0.124 = 3.992
0.879/0.218 = 4.032

$$\lambda_{max} = 4.0198$$

 $C.T. = \frac{\lambda_{max} - \Lambda}{N-1} = \frac{4.0198 - 4}{4-1} = 0.0066$
 $CR = \frac{CT}{RI} = \frac{0.0066}{0.9} = 0.00733 < 0.1$
acceptable consistency
3.

Q3.

Solution Ad varience priority vectors

$$\begin{array}{c|c}
\hline
 & 0.2213 \\
 & 0.0934 \\
 & 0.6853
\end{array}$$
Train du $z = \begin{bmatrix} 0.27487 \\
 & 6572 \\
 & 0.0682 \end{bmatrix}$

[0.253 0.58 0.167]