

Assignment
Industrial Facility Design
Chap: 6

As Submitted to:

Dr. Haris Aziz

Submitted by:

Ali Akbar Naqvi 11-IE-61

Saeel Ahmad 11-IE-60

Shahzad Saleem 11-IE-17

~~IED~~

Qno 21

Consider the layout of five equal-sized departments. The material flow matrix is given below.

(a) Develop the final adjacency graph using the graph-based procedure

(b) Develop a block layout based on the final adjacency graph obtained in Part a

| | A | B | C | D | E |
|---|----|----|----|----|----|
| A | - | 0 | 5 | 25 | 15 |
| B | 0 | - | 20 | 30 | 25 |
| C | 0 | 25 | - | 40 | 30 |
| D | 30 | 5 | 20 | - | 0 |
| E | 20 | 30 | 5 | 10 | - |

Solution :-

6. which face should department A located.

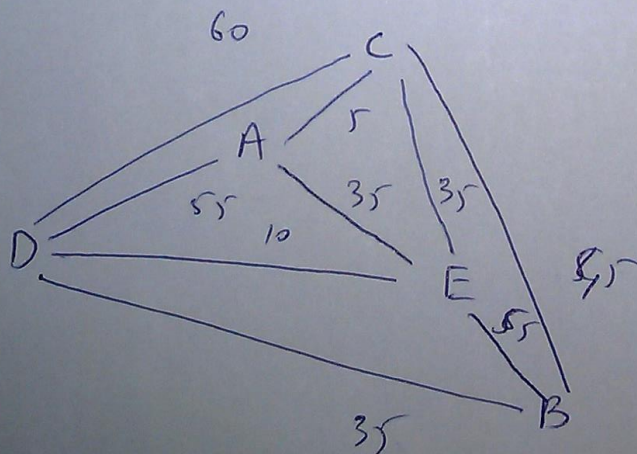
| | C | D | E | Total |
|---|---|----|----|-------|
| A | 5 | 55 | 35 | 95 |

| | B | C | E | Total |
|---|---|---|----|-------|
| A | 0 | 5 | 35 | 40 |

| | B | D | E | Total |
|---|---|----|----|-------|
| A | 0 | 55 | 35 | 90 |

A should be located in
Face C-D-E.

Adjacency Graph:



Block layout:

