

Time left 0:43:17

Question 2

Not yet answered

Marked out of 2.00

Flag question

in the material handling the Optimal Unit Load is the quantity where system idle time, WIP and transportation cost are minimized.

Select one:

- True  
 False

Next page

stay in touch



Material handling system should be well planned and designed before the facility layout planning starts in order to gather critical information necessary to make appropriate layout decisions

Select one:

- True  
 False

It determines how an activity's tangible fixed assets best support achieving the activity's objectives

- a. Facility Location

es planning\_Midterm Exam x +  
iz/attempt.php?attempt=115329&cmid=275909

# S PLANNING AND MATERIAL HANDLING / الشعب

ourses

FACILITIES PLANNING AND MATERIAL HANDLING / جميع الشعب

General

Facilities planning\_Mid

Rafael Metals Company manufactures of wood burning stove. What is the product input for 15,000 stoves if the good quality of each stove is 88%?

a. 13,200

b. 125,000

c. 17,046

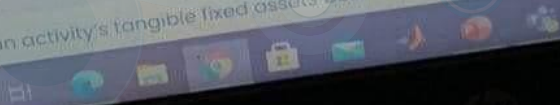
d. 1,800

Clear my choice

Question 2

pe here to search

it determines how an activity's tangible fixed assets best support achieving the activity's objectives



Time left 0:56:03

Question 1  
Not yet answered  
Marked out of 2.00  
Flag question

Given the following dimensions of a particular type of plastic reusable containers:  
Inside dimensions 20" x 10" x 10"  
Outside dimensions 22" x 12" x 12"  
Each nested container 22" x 12" x 2"  
A trailer inside dimension 280" x 120" x 120"  
Containers are not palletized. Assume no clearance is needed between containers, and between containers and the walls of the trailer.  
then the trailer space utilization is:

a. None of the mentioned  
 b. 58.5%  
 c. 59.5%  
 d. 63.05%  
 e. 63.2%  
 f. 63.1%

Clear my choice

hp

My courses FACILITIES PLANNING AND MATERIAL HANDLING General Final exam (June ,2021)

Time left 0:46:15

Question 2  
Marked out of 2.00

if an industrial facility employees 500 persons and eat during two shift of 30 minutes each. the space required for the cafeteria with vending machines is equal to ----- ft squared.  
Note: for the cafeteria space requirements use the lower limit.

Answer:

Next page

in touch

77°F Haze

Time left 0:47:29

from the factors to be considered in analyzing the material handling problem-----  
-----

- a. the types of materials
- b. the material physical characteristics
- c. the quantity to be moved
- d. all of the above are correct

Clear my choice

Next page



If an industrial facility employees 490 people and eat during 2 equal meals per day, the kitchen space required for the full kitchen (Kitchen space) is:

- a. 6,170 ft<sup>2</sup>
- b. 1,715 ft<sup>2</sup>
- c. 4,655 ft<sup>2</sup>
- d. 5,855 ft<sup>2</sup>

[Clear my choice](#)

Given the following dimensions of a particular type of plastic reusable container:

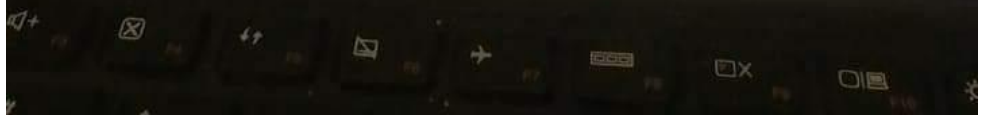
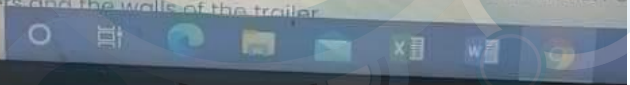
Inside dimensions 20" x 10" x 10"

Outside dimensions 22" x 12" x 12"

Each nested container 22" x 12" x 2"

A trailer inside dimension 280" x 120" x 120"

Containers are not palletized. Assume no clearance is needed between containers and the walls of the trailer.



Time left 0:37:50

The bill of material (BOM) contains information about:

- a. part number
- b. drawing
- c. material
- d. equipment requirements
- e. a, b and c are correct
- f. all of the above are correct

Clear my choice

Next page



Time left 0:22:21

In designing a health service area, assume that the facility has employed three nurses and two part time physician, then the area required for the examination room is ----- ft squared

Answer:

Next page



MacBoo

Clear my choice

Question 5

Not yet answered

Marked out of 2.00

Flag question

Create manufacturing cells based on the machine-part matrix below.

Part #	Machine #				
	1	2	3	4	5
1			1		1
2	1				
3	1	1		1	
4			1		1
5				1	
6	1	1			

- a. cell 1{M1, M3, M4}, cell 2{M2, M5},
- b. We can have two separate cells, there is a bottleneck machine.
- c. cell 1{M3, M5}, cell 2{M1, M2, M4},
- d. cell 1{M1, M4}, cell 2{M2, M3, M5},
- e. None of the mentioned
- f. cell 1{M2, M3, M4}, cell 2{M1, M5},
- g. cell 1{M1, M3}, cell 2{M2, M4, M5},

## FACILITIES PLANNING AND MATERIAL HANDLING / الشعب

Home

My courses

FACILITIES PLANNING AND MATERIAL HANDLING / جميع الشعب

General

Facilities Final Exam

Time left 0:54:05

Question 1

Not yet answered

Marked out of 1.00

Flag question

In fixed product type layout there is little flow of personnel and equipment, but an increased flow of material through the facility.

Select one:

True

False

Question 2

Not yet

Given the following dimensions of a particular type of plastic reusable containers:  
inside dimensions 20" x 10" x 10"



Question 1  
Not yet answered  
Marked out of 0.50  
Flag question

A type of layout used when the product is too large or cumbersome to move through the various processing steps. Consequently, rather than take the product to the processes, the processes are brought to the product.

- a. Fixed Position Layout
- b. Group Layout
- c. Product Layout
- d. Process Layout

Clear my choice

Question 2  
Not yet answered  
Marked out of 2.00  
Flag question

It determines how an activity's tangible fixed assets best support achieving the activity's objectives

- a. Facility Location

# FACILITIES PLANNING AND MATERIAL HANDLING

Home My courses FACILITIES PLANNING AND MATERIAL HANDLING General Final exam (June ,2021)

Time left 0:36:39

Question 2  
Not yet answered  
Marked out of 2.00  
Flag question

Quality Function Deployment (QFD) is a tool used in the product design process in order to convert the customers' desires into parts characteristics.

- Select one:
- True
  - False

Next page

Quiz nav

1	2
8	9
15	16
22	23

Finish attempt

Stay in touch

Time left 0:12:28

In designing a health services area, assume that the facility has employed three nurses and three part time physician , then the area required for the **examination room** is ----- ft squared

Answer:

Next page

touch

Question 1

Not yet answered

Marked out of 10

Flag question

Time left 0:56:26

If an industrial facility employees 490 people and eat during 2 equal 30 minutes shifts. The space required for the cafeteria with vending machines is :

- a. 2,940 ft<sup>2</sup>
- b. None of the mentioned
- c. 4,165 ft<sup>2</sup>
- d. 3,185 ft<sup>2</sup>
- e. 3,920 ft<sup>2</sup>

[Clear my choice](#)

Quiz no

1	2
7	8
13	14
19	20
25	26
31	32

FINISH

Question 2

Consider the layout of 5 equal-sized departments. The material flow matrix is given in the

Time left 0:23:03

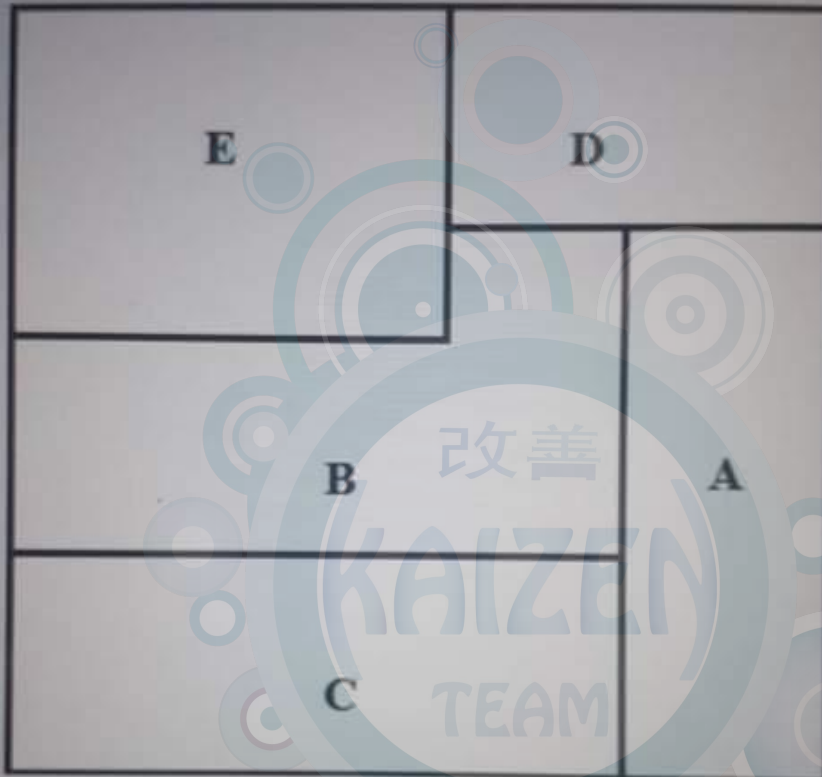
If it is required to design a double loaded wall to wall (with continuous concrete curb) parking space (i.e. W2) with a parking angle of 70 degree and a module width for standard cars equals to 60 ft, given that the stall depth is 18 ft.

The stall width is equal to ----- ft.



Time left 0:

Given the recommended layout for a new facility and the weekly flow between departments A, B, C, and E. The normalized Adjacency score (relative efficiency) the layout is:



	A	B	C	D	E
A	---	350	250	250	
B		---	350	300	400
C			---		150
D				---	450
E					---

- b. 19.05
- c. 4.75
- d. 7.52
- e. 11

Perpendicular parking allows quicker turnover, while angular parking yields greater space utilization.

Select one:

- True
- False

Next page

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Time left 0:47:29

from the factors to be considered in analyzing the material handling problem-----  
-----

- a. the types of materials
- b. the material physical characteristics
- c. the quantity to be moved
- d. all of the above are correct

Clear my choice

Next page

Qu

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Finis

Time left 0:06:55

Question 3

Not yet answered

Marked out of 2.00

Flag question

Assume that the total number of employees in an industrial facility is 440 employees, and they eat during two equal 30 minutes shifts.

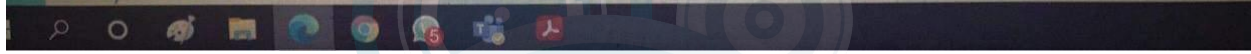
If we want to design a **cafeteria with serving lines** then the total food service area is----- ft squared.

**hint:** for the cafeteria area select the lower bound

Answer:

Next page

Stay in touch



answered

Marked out of  
2.00

Flag  
question

Outside dimensions 22" x 12" x 12"

Each nested container 22" x 12" x 2"

A trailer inside dimension 280" x 120" x 120"

Containers are not palletized. Assume no clearance is needed between containers, and between containers and the walls of the trailer.

Container space utilization is:

- a. 0.67
- b. 0.69
- c. 0.57
- d. 0.63
- e. None of the mentioned
- f. 0.55

[Clear my choice](#)

Time left 0:38:50

[Next page](#)

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KAIZEN  
TEAM

Time left 0:31:29

In designing a health service area, assume that the facility has employed four nurses and two part time physician, then the area required for the waiting room is ----- ft squared.

Answer:

Next page

Time left 0:25:20

Question 16

Not yet answered  
Marked out of 10  
Flag question

using the graph based procedure, and given the material flow matrix for the five equal sized departments (A, B, C, D, E)

the first three nodes added to the graph are : -----

		To				
		A	B	C	D	E
From	A	-	10	20	35	15
	B		-	50	15	5
	C			-	10	10
	D				-	20
	E					-

- a. ( departments B and C), then department A
- b. ( departments B and C), then department D
- c. ( departments B and C), then department E
- d. all of the above are correct

Clear my choice

Next page



# FACILITIES PLANNING AND MATERIAL HANDLING

My courses FACILITIES PLANNING AND MATERIAL HANDLING General Final exam (June, 2021)

Time left 0:31:10

Question 5

In the CRAFT, you can exchange the location of two equal area departments even if the departments are not adjacent

Select one:

- True
- False

Next page

in touch

- e. All of the above are correct

Question 2

It is a form of flow pattern that most effective for assembly type production

- a. The loop flow pattern
- b. The tree flow pattern
- c. The spine flow pattern
- d. The line flow pattern

Question 3

Strategic facility Planning solves problems related to specifics, such as where individual

Question 5

Not yet answered

Marked out of 1.00

Flag question

For most cost and revenue formulations the expected profit is a concave function

Select one:

- True
- False

Question 6

Not yet answered

Marked out of 3.00

Flag question

Dawson company produces T-shirts for road races. They need to acquire some new stamping machines to produce 60,000 good T-shirts per month. Their plant operates 200 hours per month, but the new machines will be used for T-shirts only 75 percent of the time and the output usually includes 6 percent that are — seconds and unusable



MacB

Time left 0:04:55

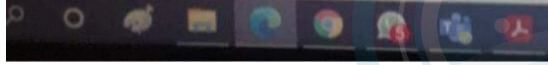
Question 5  
Not yet answered  
Marked out of 2.00  
Flag question

In designing a health services area, assume that the facility has employed three nurses and three part time physician , then the area required for the waiting room is ----- ft squared

Answer:

Finish attempt ...

Stay in touch



which of the following is from the advantages of in-sourcing:

- a. to retain control over the quality
- b. free machines or equipment
- c. concentrate on core competence
- d. all of the above are correct

Clear my choice

h



Not yet answered

Time left 0.57

Marked out of 1.00

Flag question

The Optimal Unit Load is the quantity where processing time, WIP and transportation cost are minimized

Select one:

True

False

Question 8

Not yet answered

Marked out of 2.00

Flag question

A manufacturing company has six departments located in two

# FACILITIES PLANNING AND MATERIAL HANDLING

Home My courses FACILITIES PLANNING AND MATERIAL HANDLING General Final exam (June,2021)

Time left 0:4

Question 1  
Not answered  
Marked out of  
1.00  
Flag question

In the CRAFT, when exchanging two departments you can split the larger department during the manual adjustment step.

Select one:

- True
- False

Next page



# FACILITIES PLANNING AND MATERIAL HANDLING

Question 2  
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If it is required to design a double loaded wall to wall (with continuous concrete curb) with a parking angle of 70 degree and a module width for standard cars equals to 60 depth is 18 ft.

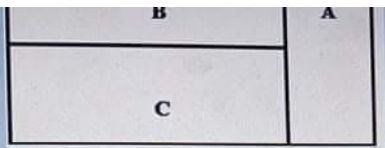
The parking width is equal to ----- ft.

**Note: approximate your answer to the second decimal**

Answer:

here to search





	A	B	C	D	E
A	----	350	250	250	
B		----	350	300	400
C			----		150
D				----	450
E					----

- a. 2450
- b. 2650
- c. 2400
- d. 2250
- e. 2350
- f. None of the mentioned





# FACILITIES PLANNING AND MATERIAL HANDLING

Home

My courses

FACILITIES PLANNING AND MATERIAL HANDLING

General

Final exam (June,

Time left 0:31:00

Question 3

Not yet

answered

Marked out of

1.00

Flag

question

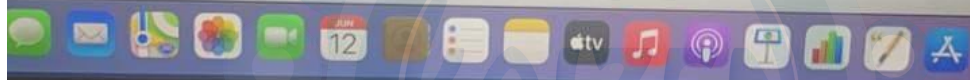
If it is required to design a double loaded wall to wall (with continuous concrete curb) parking space (i.e. W2) with a parking angle of 70 degree and a module width for standard cars equals to 60 ft, given that the stall depth is 18 ft.

The parking width is equal to ----- ft.  
Note: approximate your answer to the second decimal

Answer:

Next page

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MacBook Air



Time left 0:57:17

Quiz navigation

1	2	3	4	5	6
9	10	11	12	13	14
17	18	19	20	21	22
25	26	27	28	29	30
33	34				

Finish attempt...

Question 1  
Not yet answered  
Marked out of 1.00  
Flag question

In fixed product type layout there is little flow of personnel and equipment, but an increased flow of material through the facility.

Select one:

True

False

Question 2  
Not yet answered  
Marked out of 1.00  
Flag question

Muther's Systematic Layout Planning is a layout procedure which is based on the space relationship diagram, modifying considerations, and practical limitations, then a number of alternative layouts are designed and evaluated.

Select one:

True

False

Next page

Type here to search

My courses FACILITIES PLANNING AND MATERIAL HANDLING General Final exam (June 2021)

Time left 0:47:16

Question 1  
Not yet answered  
Marked out of 1.00  
Flag question

----- means that the shape of the containers permits an empty container to be inserted into another empty container.

a. Stackability

b. Nestability

c. Modularity

d. none of the above is correct

Clear my choice

Next page

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Time left 0:37:46

Given the following dimensions of a particular type of plastic reusable containers:

Inside dimensions 19"x 10"x11"

Outside dimensions 20"x12"x12"

Each nested container 20"x12"x3"

A trailer inside dimension 260"x120"x120"

Containers are not palletized. Assume no clearance is needed between containers, and between containers and the walls of the trailer

the **container nesting ratio** is equal to -----

- a. 2
- b. 3
- c. 4
- d. 6

Time left 0:44:23

Given the following dimensions of a particular type of plastic reusable containers:

Inside dimensions 19"x 10"x11"

Outside dimensions 20"x12"x12"

Each nested container 20"x12"x3"

A trailer inside dimension 260"x120"x120"

Containers are not palletized. Assume no clearance is needed between containers, and between containers and the walls of the trailer

the **trailer return ratio** is equal to -----

- a. 3
- b. 4
- c. 3.6
- d. 3.7
- e. 3.8
- f. none of the above is correct

1	2	3	4	5
7	8	9	10	11
13	14	15	16	17
19	20	21	22	23
25	26			

Finish attempt ...

using the graph based procedure, and given the material flow matrix for the five equal sized departments (A, B, C, D, E) the first three nodes added to the graph are : -----

		To				
		A	B	C	D	E
From	A	--	10	20	35	15
	B		--	50	15	5
	C			--	10	10
	D				--	20
	E					--

- a. ( departments B and C), then department A
- b. ( departments B and C), then department D
- c. ( departments B and C), then department E
- d. all of the above are correct

Time left 0:53:38

Question 3  
Not yet answered  
Marked out of 1.00  
Flag question

Perpendicular parking allows quicker turnover, while angular parking yields greater space utilization.

Select one:

- True
- False

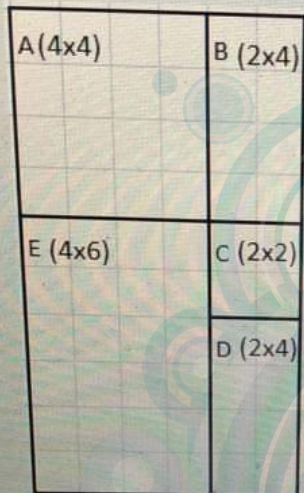
Question 4  
Not yet answered  
Marked out of 1.00

How many lavatories do you need if a foundry has 112 employees?

- a. 6
- b. 5
- c. 8

Time left 0:43:58

given the following facility layout, the rectilinear distance between the two departments (A and D) is equal to -----



- a. 6.7 distance unit
- b. 9 distance unit
- c. 8 distance unit
- d. 10 distance unit

Next page



MacBook A

Time left 0:49:33

Question 1

Not yet answered

Marked out of 2.00

Flag question

if there is a medium demand for medium number of similar components the suitable layout type is -----

- a. production line layout
- b. fixed position layout
- c. product family layout
- d. process layout
- e. hybrid layout

Next page



Time left 0:24:45

If it is required to design a double loaded wall to wall (with continuous concrete curb) parking space (i.e. W2) with a parking angle of 70 degree and a module width for standard cars equals to 60 ft, given that the stall depth is 18 ft.

The distance lost due to parking at angle is equal to ----- ft.

**Note: approximate your answer to the second decimal**

Answer:

Next page



Mac

d. Handling System Design .

In fixed product type layout there is little flow of personnel and equipment, but an increased flow of material through the facility.

Select one:

- True  
 False

In the operation process chart and precedence diagram, components are identified with four digit number starting with 0.

Select one:

- True  
 False

My courses

FACILITIES PLANNING AND MATERIAL HANDLING

General

Final exam (June ,2021)

Time left 0:23:17

In designing a health service area, assume that the facility has employed four nurses and two part time physician, then the area required for the waiting room is ----- ft squared.

Answer: |

Next page



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Time left 0:38:23

Quiz naviga

1	2	3
7	8	9
13	14	15
19	20	21
25	26	27
31	32	33

Finish attempt ...

Given the following dimensions of a particular type of plastic reusable containers:

Inside dimensions 20" x 10" x 10"

Outside dimensions 22" x 12" x 12"

Each nested container 22" x 12" x 2"

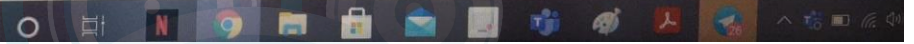
A trailer inside dimension 280" x 120" x 120"

Containers are not palletized. Assume no clearance is needed between containers, and between containers and the walls of the trailer.

then the number of nested containers that use the same space as one closed container is:

- a. 6
- b. None of the mentioned
- c. 11
- d. 7
- e. 4
- f. 5

to search



25

d  
out of

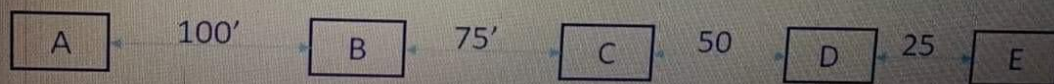
Handling system design concerns with

- a. all equipment, machinery, and furnishings within the building envelope.
- b. the mechanisms needed to satisfy the required facility interactions.
- c. structural systems, the atmospheric systems, the enclosure system, the lighting/electrical/communication systems, the life safety system and the sanitation system.
- d. All choices are correct

26

d  
out of

based on the spatial schematic represented below, Back track penalty for the component route: A-C-D-B-E.



Time left 0:18:33

Given the following dimensions of a particular type of plastic reusable containers:

Inside dimensions 19"x 10"x11"

Outside dimensions 20"x12"x12"

Each nested container 20"x12"x3"

A trailer inside dimension 260"x120"x120"

Containers are not palletized. Assume no clearance is needed between containers, and between containers and the walls of the trailer

the trailer return ratio is equal to -----

- a. 3
- b. 4
- c. 3.6
- d. 3.7
- e. 3.8
- f. none of the above is correct

Question 7  
Not yet answered  
Marked out of  
1.00  
Flag this question

Time left 0:45:14

Given the following dimensions of a particular type of plastic reusable containers:

Inside dimensions 20" x 10" x 10"

Outside dimensions 22" x 12" x 12"

Each nested container 22" x 12" x 2"

A trailer inside dimension 280" x 120" x 120"

Containers are not palletized. Assume no clearance is needed between containers, and between containers and the walls of the trailer.

then the number of nested containers that use the same space as one closed container is:

- a. 4
  - b. None of the mentioned
  - c. 11
  - d. 5
  - e. 7
  - f. 6
- Clear my choice

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	

Finish attempt ...

A principle of material handling which a material handling facility should be the result of a cohesive and ...

Time left 0:57:11

Question 1

Not yet answered  
Marked out of 1.00  
Flag question

If an industrial facility employs 490 people and eat during 2 equal 30 minutes shifts. The space required for the cafeteria with vending machines is :

- a. 4,165 ft<sup>2</sup>
- b. 3,185 ft<sup>2</sup>
- c. 2,940 ft<sup>2</sup>
- d. None of the mentioned
- e. 3,920 ft<sup>2</sup>

Clear my choice

Question 2

Not yet answered

It is a form of flow pattern that is applicable when it is desired to terminate the flow very near the point where the flow originated.

Time left 0:52:22

Question 3

Not yet answered  
Marked out of 1.00  
Flag question

All of the following statements are correct except.

- a. Foodservice area needs to be located within 1000 feet of permanent employee workstations.
- b. Water fountains need to be within 200 feet of workstations.
- c. Restrooms should be located within 200 meter of every permanent workstation.
- d. At least there should be 2 handicapped spaces per 100 parking spaces.
- e. None of the mentioned

Clear my choice

Question 4

Not yet answered

The graph obtained from the relationship diagram is usually a nonplanar graph

Question 3  
Not yet answered  
Marked out of 1.00  
Flag question

Time left 0:49:56

Quiz  
1  
9  
17  
25  
33  
Finish

Muther's Systematic Layout Planning is a layout procedure which is based on the space relationship diagram, modifying considerations, and practical limitations, then a number of alternative layouts are designed and evaluated.

Select one:

- True
- False

Question 4  
Not yet answered  
Marked out of 1.00  
Flag question

The Optimal Unit Load is the quantity where processing time, WIP and transportation cost are minimized

Select one:

- True
- False

Type here to search



Question 8  
Not yet answered  
Marked out of 1.00  
Flag question

f. 6

Clear my choice

A principle of material handling which a material handling facility should be the result of a cohesive and structured unit of specific courses of action to determine what material needs to be moved, when, and where it will be moved, and how it will be moved.

- a. None of the mentioned
- b. Work Principle
- c. Planning Principle
- d. System Principle
- e. Standardization Principle

Clear my choice

Next page

Type here to search



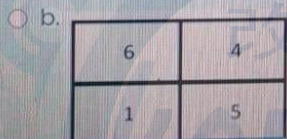
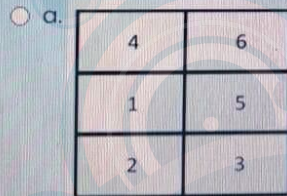
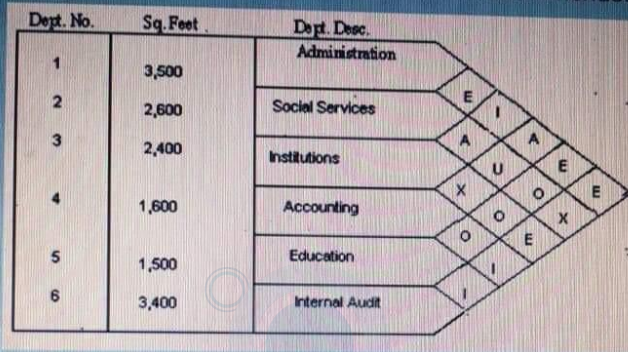
Question 5

Not yet answered

Marked out of 2.00

Flag question

Based on the relationship chart below, the recommended layout is:



False

For the two way pallet, the fork entry can be only on two opposite sides of the pallet and is perpendicular to the stringer side.

Select one:

True

False

activity  
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Jump to...

touch

Time left 0:20:

Question 16  
Not answered  
Marked out of 1  
Flag question

If an industrial facility employs 500 persons and eat during two shifts of 30 minutes each, the space required for the full kitchen is ----- ft squared.

Note: the required is the **kitchen space only**

Answer:

Next page

Question 6  
Not answered  
Marked out of 1  
Flag question

b. Fixed Position Layout  
 c. Process Layout  
 d. Group Layout

Clear my choice

Material handling system should be well planned and designed before the facility layout planning starts in order to gather critical information necessary to make appropriate layout decisions

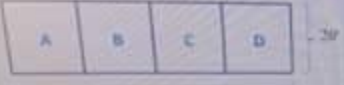
Select one:  
 True  
 False

Next page

Jump to...

Windows taskbar: Edge, File Explorer, Mail, Store, Chrome, Firefox

A facility has 4 departments of the same size as shown below. The total cost of the initial layout is \$28,000. A layout manager is being commissioned in order to minimize the total cost. The steady flow of material is represented by the Flow Between Chart below.



Department	A	B	C	D
A		100	100	100
B			200	100
C				100
D				

The result of exchanging department A and B is:

- a. None of the statements
- b. \$2,000 increase in total cost
- c. \$2,000 decrease in total cost
- d. No change
- e. \$2,000 increase in total cost



(June, 2021)

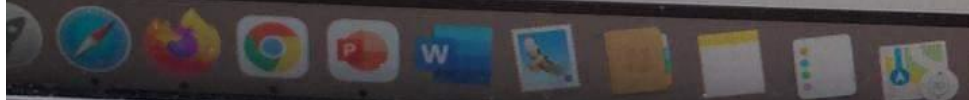
Time left 0:49:

if there is a **medium demand for medium** number of similar components the suitable layout type is -----

- a. production line layout
- b. fixed position layout
- c. product family layout
- d. process layout
- e. hybrid layout

Clear my choice

Next page





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Assume that the total number of employees in an industrial facility is 440 employees, and they eat during two equal 30 minutes shifts.

If we want to design a **cafeteria with vending machines** then the total food service area is ----- ft squared.

**hint:** for the cafeteria area select the lower bound

Answer:

Next page

False

For the relationship chart, if there are 9 department, then ----- pairwise combination must be considered.

- a. 81
- b. 18
- c. 72
- d. 36

The objective of concurrent engineering is to minimize design changes happening after the design is finalized.

Select one:

- True
- False



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In fixed product type layout there is little flow of personnel and equipment through the facility.

Select one:

- True
- False

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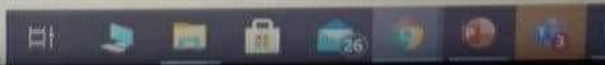
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In the operation process chart and precedence diagram, components starting with 0.

Select one:

- True
- False

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It determines how an activity's tangible fixed assets best support achieving the activity's objectives

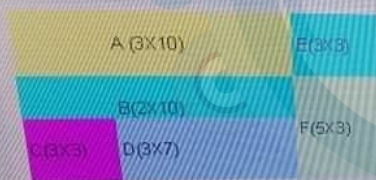
- a. Layout Design
- b. Facility Planning
- c. Facility Location
- d. Handling System Design

In fixed product type layout there is little flow of personnel and equipment, but an increased flow of material through the facility.

Select one:

- True

The Rectilinear distance from department C to department E based on the following layout is:



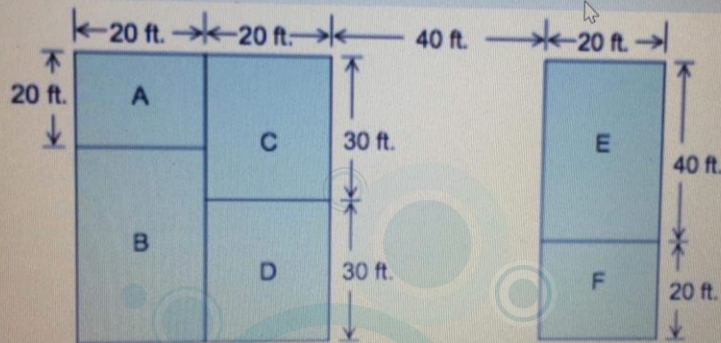
- a. 15
- b. 14.5
- c. 15.5
- d. 17.5
- e. 16.5
- f. 17
- g. 16
- h. 14

Time left 0:26:53

Quiz navigati

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ition

A manufacturing company has six departments located in two buildings, as shown in the figure below. The company is contemplating a rearrangement of departments to minimize the total flow cost between department centroids. The flow data and cost data is provided below. Suppose the given layout is the initial layout to CRAFT.



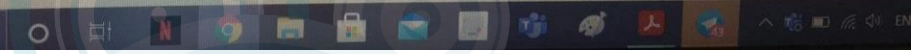
Quiz navigation grid:

1	2	3	4
7	8	9	10
13	14	15	16
19	20	21	22
25	26	27	28
31	32	33	34

Finish attempt ...

Based on the initial layout department A can be exchanged with all department except:

ere to search



Question 8

Not yet answered

Marked out of 1.00

Flag question

Material handling system should be well planned and designed before the facility layout planning starts in order to gather critical information necessary to make appropriate layout decisions.

Select one:

- True
- False

Quiz navigation grid (partial):

19	20
25	26
31	32

Finish att

Type here to search



Next page

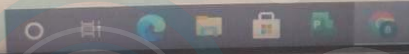
Question 7  
Not yet answered  
Marked out of 1.00  
Flag question

in the CRAFT, you can exchange the location of two equal area departments even if the departments are not adjacent

- Select one:
- True
  - False

Next page

Stay in touch  
Contact Info  
Type here to search



DELL

Question 4  
Not yet answered  
Marked out of 0.50  
Flag question

A type of layout used when the product is too large or cumbersome to move through the various processing steps. Consequently, rather than take the product to the processes, the processes are brought to the product.

- a. Process Layout
- b. Group Layout
- c. Fixed Position Layout
- d. Product Layout

Quiz navigation  
1 2  
7 8  
13 14  
19 20  
25 26  
Finish attempt  
Time left 0:21

Question 5  
Not yet answered  
Type here to search

In a \_\_\_\_\_ layout, work stations are arranged according to the general function they perform without regard to any particular product.



TOSHIBA

Time left 0:05:22

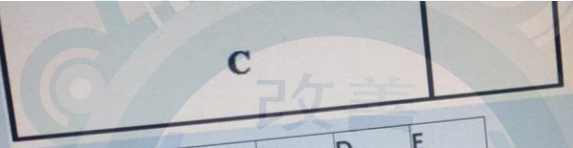
Question 4  
Not yet answered  
Marked out of  
Flag question

In designing a health services area, assume that the facility has employed three nurses and three part time physician, then the area required for the first aid room is ----- ft squared

Answer:

Next page

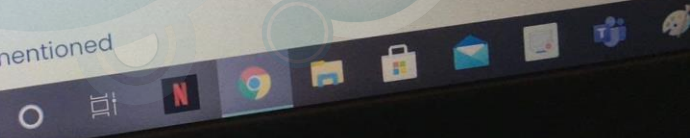
Stay in touch



	A	B	C	D	E
A	---	350	250	250	
B		---	350	300	400
C			---		150
D				---	450
E					---

a. None of the mentioned

Type here to search



DELL

# FACILITIES PLANNING AND MATERIAL HANDLING

Home

My courses

FACILITIES PLANNING AND MATERIAL HANDLING

General

Final exam (June 2021)

Time left 0:20:49

Question 18

Not yet answered

Marked out of 2.00

Flag question

If there is a medium demand for medium number of similar components the suitable layout type is

- a. production line layout
- b. fixed position layout
- c. product family layout
- d. process layout
- e. hybrid layout

Clear my choice

Next page

# FACILITIES PLANNING AND MATERIAL HANDLING / جميع الشعب

My courses

FACILITIES PLANNING AND MATERIAL HANDLING / جميع الشعب

General

Facilities Final Exam

For Craft, adjacency is necessary but not sufficient condition for exchanging two equal-area departments.

Select one:

- True
- False

Possible flow pattern that within process department are:

- a. All mentioned
- b. Back to back
- c. Front to front
- d. None of the mentioned
- e. End to end
- f. Circular

5

In the operation process chart and precedence diagram, components are identified

pdf

Chap\_3-Flow\_spac...pdf

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Chap\_2-product\_p...pdf

pdf

Chapter 1-Introduct...pdf





Health service at facilities should be close to hazardous tasks in quite an area.

Select one:

- True  
 False

Question 2

Not yet answered

Marked out of 2.00

Flag question

Time left 0:55:22

Consider the layout of 5 equal-sized departments. The material flow matrix is given in the figure below. Based on the graph-based procedure, the first 3 nodes added to the graph are:

From/To	A	B	C	D	E
A	—	0	5	55	35
B		—	45	35	55
C			—	60	35
D				—	10
E					—

- a. First departments C and D, then department E  
 b. First departments C and D, then department B  
 c. First departments C and D, then department A  
 d. None of the mentioned

Clear my choice

COURSES

FACILITIES PLANNING AND MATERIAL HANDLING

General

Final exam (June, 2021)

Time left 0:15:42

If it is required to design a double loaded wall to wall (with continuous concrete curb) parking space (i.e. W2) with a parking angle of 70 degree and a module width for standard cars equals to 60 ft, given that the stall depth is 18 ft.

The parking width is equal to ----- ft.

Note: approximate your answer to the second decimal

Answer:

It is a form of flow pattern that most effective for facilities that utilize robotic-type material handling for moving parts from one workstation to another workstation.

- a. The loop flow pattern
- b. The tree flow pattern
- c. The S-line flow pattern
- d. The spine flow pattern
- e. None of the mentioned

[Clear my choice](#)

[Next page](#)

- a. D and F departments
- b. B, C, and F departments.
- c. D, E, and F departments
- d. D and E departments
- e. None of the mentioned

[Clear my choice](#)

Question 18

Health service at facilities should be close to hazardous tasks in quite an area.

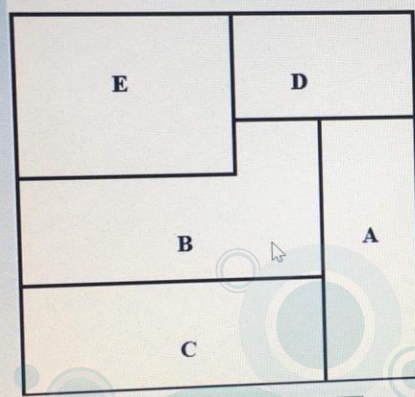
Question 21

Not yet answered

Marked out of 3.00

Flag question

Given the recommended layout for a new facility and the weekly flow between departments A, B, C, D, and E. The normalized Adjacency score (relative efficiency) the layout is:



	A	B	C	D	E
A	---	350	250	250	
B		---	350	300	400

Type here to search

Clear my choice

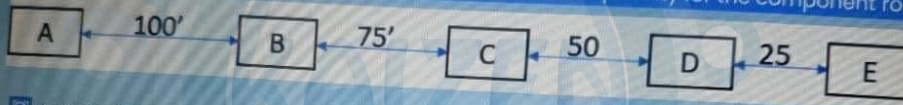
Question 3

Not yet answered

Marked out of 1.50

Flag question

based on the spatial schematic represented below, Back track penalty for the component route: A-C-D-B-E



- a. none of the mentioned
- b. 125
- c. 200
- d. 250

Clear my choice

ere to search

Next page

# FACILITIES PLANNING AND MATERIAL HANDLING

My courses

FACILITIES PLANNING AND MATERIAL HANDLING

General

Final exam (June ,2021)

Time left 0:18:23

If it is required to design a double loaded wall to wall (with continuous concrete curb) parking space (i.e. W2) with a parking angle of 70 degree and a module width for standard cars equals to 60 ft, given that the stall depth is 18 ft.

The parking width is equal to ----- ft.

**Note: approximate your answer to the second decimal**

Answer:

Clear my choice

Assume your manager ask you to design 60° double loaded, wall to wall (with continuous concrete curb) parking space (W2) where Module width for large cars is 54 feet and stall depth of 22 feet. Then the distance lost due to parking at angle is:

- a. 7.52
- b. 11
- c. 4.75
- d. 9
- e. 19.05

Next page

KAIZEN  
TEAM

Given the following dimensions of a particular type of plastic reusable containers:

Inside dimensions 19"x 10"x11"

Outside dimensions 20"x12"x12"

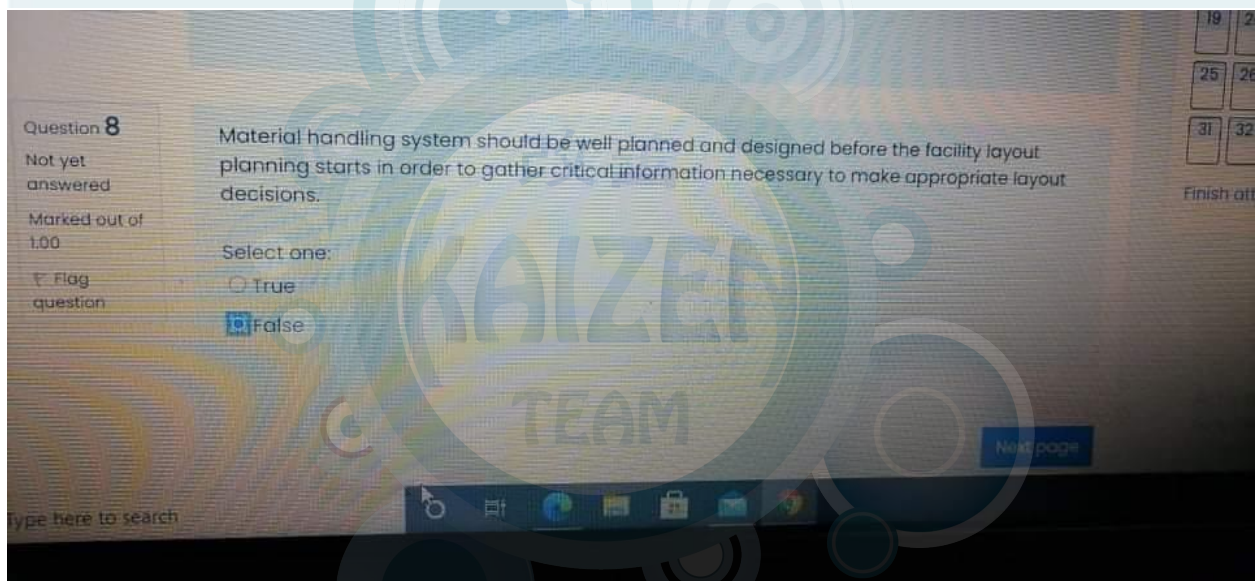
Each nested container 20"x12"x3"

A trailer inside dimension 260"x120"x120"

Containers are not palletized. Assume no clearance is needed between containers, and between containers and the walls of the trailer

the **container space utilization** is equal to -----

- a. 75.33%
- b. 72.57%
- c. 69.67%
- d. 75.72%



It is a form of flow pattern that is applicable when it is desired to terminate the flow very near the point where the flow originated.

- a. W-shaped flow pattern
- b. L-shaped flow pattern
- c. Circular flow pattern
- d. Straight line flow pattern

Clear my choice

Question 3

Not yet answered

Marked out of 3.00

Flag question

Dawson company produces T-shirts for road races. They need to acquire some new stamping machines to produce 60,000 good T-shirts per month. Their plant operates 200 hours per month, but the new machines will be used for T-shirts only 75 percent of the time and the output usually includes 6 percent that are seconds and unusable. The stamping operation takes 1 minute per T-shirt, and the stamping machines are expected to have 90 percent efficiency when considering adjustments, changeover of patterns, and unavoidable downtime. How many machines are required?

- a. 7
- b. 8
- c. 9
- d. 10
- e. 11

Next page



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How many lavatories do you need if a foundry has 112 employee?

- a. 8
- b. 5
- c. none of the mentioned
- d. 7
- e. 6

Clear my choice

tion 2

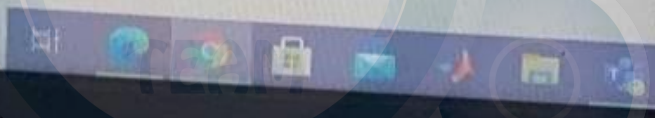
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If an industrial facility employees 490 people and eat during 2 equal 30 minutes shifts the cafeteria with vending machines is :

- a. 2,940 ft<sup>2</sup>
- b. 3,185 ft<sup>2</sup>
- c. 3,920 ft<sup>2</sup>
- d. None of the mentioned
- e. 4,165 ft<sup>2</sup>

to search



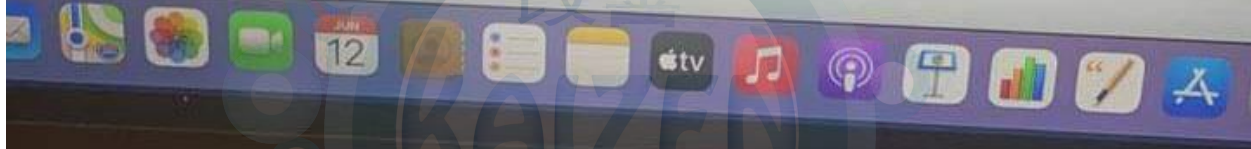
Time left 0:21:56

In designing a health service area, assume that the facility has employed three nurses and two part time physician, then the area required for the examination room is ----- ft squared

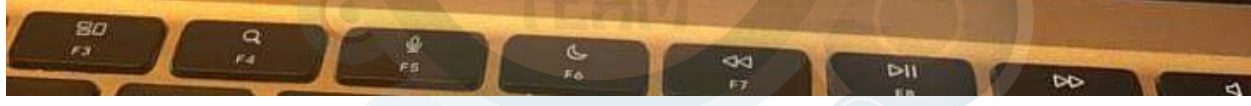
Answer:

Next page

ouch



MacBook Air





from the factors to be considered in analyzing the material handling problem-----

- a. the types of materials
- b. the material physical characteristics
- c. the quantity to be moved
- d. all of the above are correct

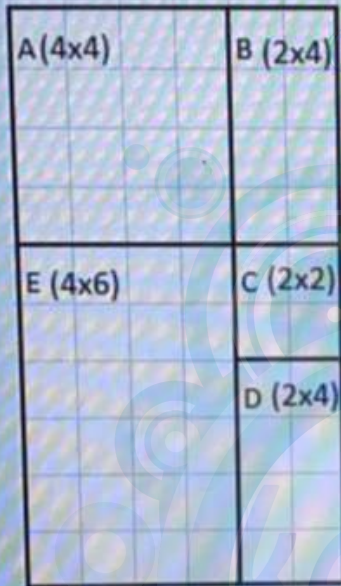
Clear my choice

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KAIZEN  
TEAM

given the following facility layout, the rectilinear distance between  
is equal to -----



- a. 6.7 distance unit
- b. 9 distance unit
- c. 8 distance unit
- d. 10 distance unit

Clear my choice



Question 4

Not yet answered

Marked out of 1.00

Flag question

In the operation process chart and precedence diagram, components are identified with four digit number starting with 0.

Select one:

True

False

Question 5

Not yet answered

Marked out of 1.00

Flag question

For most cost and revenue formulations the expected profit is a concave function

Select one:

True

In fixed product type layout there is little flow of personnel and equipment, but an increased flow of material through the facility.

Select one:

- True
- False

It determines how an activity's tangible fixed assets best support achieving the activity's objectives:

- a. Handling System Design
- b. Layout Design
- c. Facility Planning
- d. Facility Location

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KAIZEN

TEAM

# S PLANNING AND MATERIAL

courses

FACILITIES PLANNING AND MATERIAL HANDLING / جميع الشعب

General

For the relationship chart, if there are 9 department, then ----- pairwise combination must be considered.

- a. 36
- b. 72
- c. 18
- d. 81

Question 26  
Not yet answered  
Marked out of 0.50  
Flag question

In a ----- layout, work stations are arranged according to the general function they perform without regard to any particular product.

- a. Group Technology
- b. Product

