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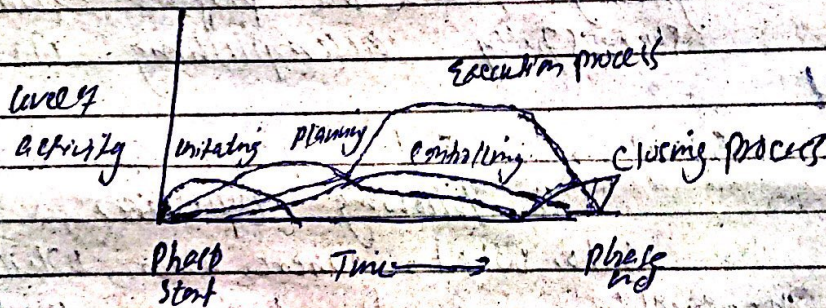
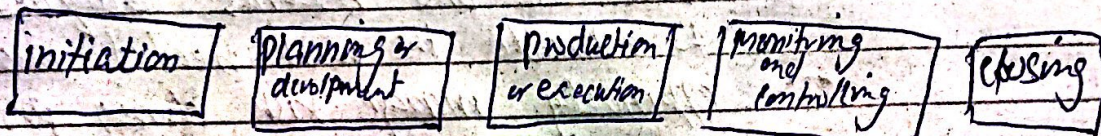
Subject: PPM

Teacher: Engr. Imtiaz Khan

Q. No. 1

Project Life Cycle

Project Process Life Cycle



① initiation process

The initiation processes determine the nature and scope of the project. If this stage is not performed well, it is unlikely that the project will be successful in meeting business needs. The key project controls needed here are understanding of the business environment and make sure that all necessary controls are incorporated in the project. Any deficiencies should be reported and a recommendation should be made to fix them.

Business case document:

this document justifies the need for the project. And it includes an estimated of potential financial benefit.

② Planning process

The main purpose is to plan time, cost and resources adequately to estimate the work needed and to effectively manage risk during project execution. As with the initiation process, a failure to adequately plan greatly reduce the projects chances of successfully accomplishing its goal.

Smart goal

Specific -> to set specific goals answer the following questions

Who, what, where, when, which and why
measurable - create criteria that you can use to measure the success of a goal.

Attainable - identify the most important goals and what it will achieve them

Realistic - you should be willing and able work toward a particular goal.

Timely -> create a time frame to achieve the goal.

③ execution or production

execution consist of a process used to complete the work define in the project planning management plan to ~~accomplish~~

Plan to Accomplish the project requirements. execution process involves coordinating people sources as well as integrating and performing the activity of the project in accordance with the project management plan. the deliverables are produced as output from the processes performed as defined in the project management plan.

(ii) Control and monitoring

Monitoring and controlling consist of those processes perform to observe project execution so that potential problems can be identified in a timely manner and corrective action can be taken when necessary to control the execution of the project. the key benefit is that project performance is observed and measured regularly to identify variance from the project management plan. calculate key performance indicators and track variations from allotted cost and time. this constant vigilance helps keeps the project moving ahead smoothly.

(iii) Closing process

Closing activities includes the formal acceptance of the project and ending. therefore administrative activities includes the archiving of the files and documenting lessons learned. Teams close a project when they deliver the finished project to the customer, communicating completion to stakeholder and releasing resources to their projects using previous project mistake and success to build stronger process and more successful teams.

Activity

CNO: 2

organizational structure

definition:-

The typically hierarchical arrangement of the lines of authority, communication rights and duties of an organizational structure determines how the roles, power and responsibilities are assigned. It controls and coordinates and how information flows how the different levels of management.

Significance

A project operates in which people process and technology of an organization projects have an impact on the culture policies procedure and other aspects of an organization. The organizational structure has a major influence on the execution of the project. The organizational structure decides the resource communication methods and other aspects of project management.

influence

- ① Authority of project management
- ② How project are conducted.

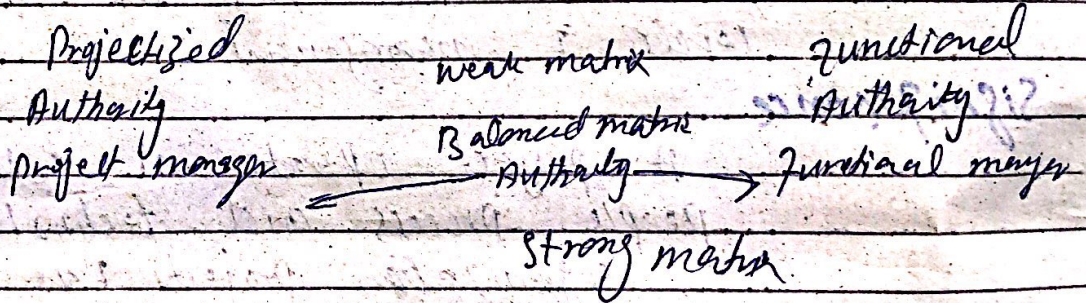
organizational structures types

- ① Functional
- ② Projectized
- ③ matrix

matrix

- ① strong
- ② balanced
- ③ weak

Authorities of organizational structure



types of matrix

matrix:

this organization is blend of both the above types the resources report into the functions but may also work on project

types: weak matrix

- ① power enjoyed by the functional manager completely
- ② project manager works like a coordinator or project expediter.

(6)

(3)

(3) project coordinator can take low bit decision on the allocation of the resources.

(4) project expeditor works only like communicator point b/w the customer and team

(5) project manager reports functional managers

Balanced matrix

(1) balanced matrix have many of the same attributes as weak matrix

(2) reasonable authority to project manager.

(3) power enjoyed by the functional as well as project manager in the same manner.

(4) becomes working on the project complex communication

Strong matrix

(1) Strong matrix equals to a strong project manager.

(2) power is enjoyed by the project manager

(3) PM can take decision on the allocation of the resources

(4) PM can utilize his or her project management skill on the project

⑦

① thinks in best choice for organized structure of the contract contractor ship in functional organization.

in functional organization the power belong to execute manager.

under the execute manager there is full full full time manager for each task which report everything to execute manager and the own employee

marketing - for ~~pro~~ this is manager for which only marketing

Engineering - which control project work

Q No. 3

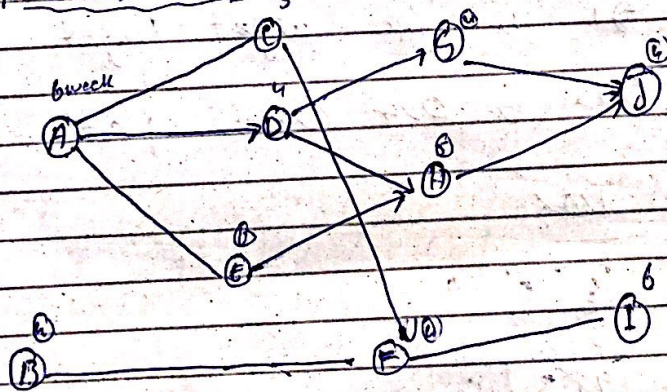
Sol.:

critical path table

Activity	Predecessor	Duration
A		6
B		4
C	A	3
D	A	4
E	A	6
F	B, C	4
G	D	5
H	D, E	6
I	F	6
J	H, G	4

30
22

Precedence diagram



Path 1 A - C - F - I

2 A - D - G - J

3 A - D - H - J

9

④ A-E-H-J 14 weeks

⑤ B-F-I

Develop 9 each path

① A-C-F-I = 6+3+4+6 = 19 weeks

② A-D-G-J = 6+4+5+4 = 19

③ A-D-H-J = 6+4+5+4 = 19

④ A-E-H-J = 6+6+5+4 = 21

⑤ B-F-I = 4+4+6 = 14

A-E-H-J

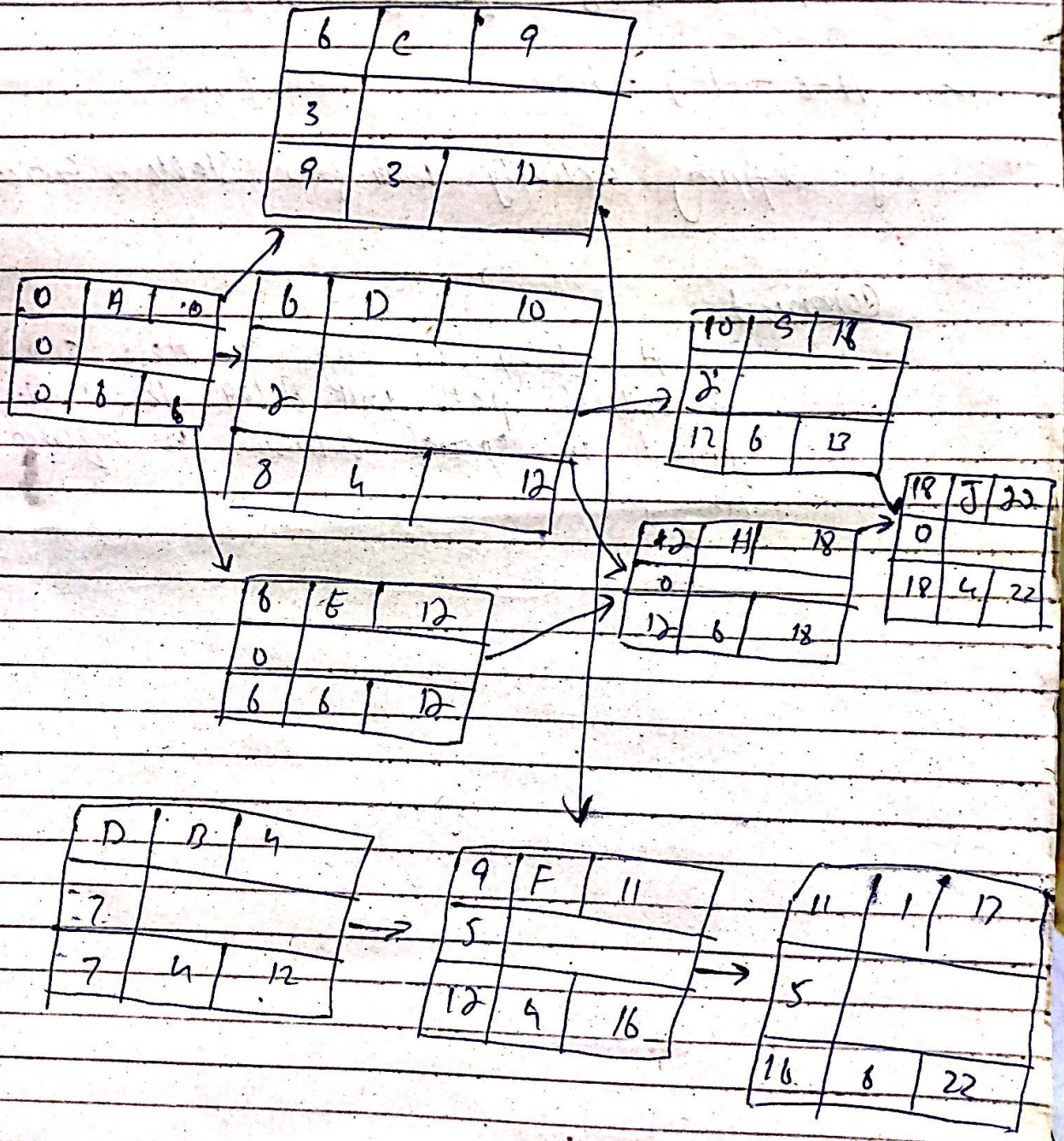
so 21 is the longest path

so this is over critical path

Activity Box

6	4	9
3		
9	3	12

Activity box



(11)

Slack time $LS - ES$ $LF - EF$

For A = 0 - 0 = 0 For R = 0 - 7 = -7

→ A-E-H-J have no slack time

By defining activity with zero slack is critical

Comment

A delay in any of these activities in critical path will delay the whole project in special detension is required for this