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Semester # 8th

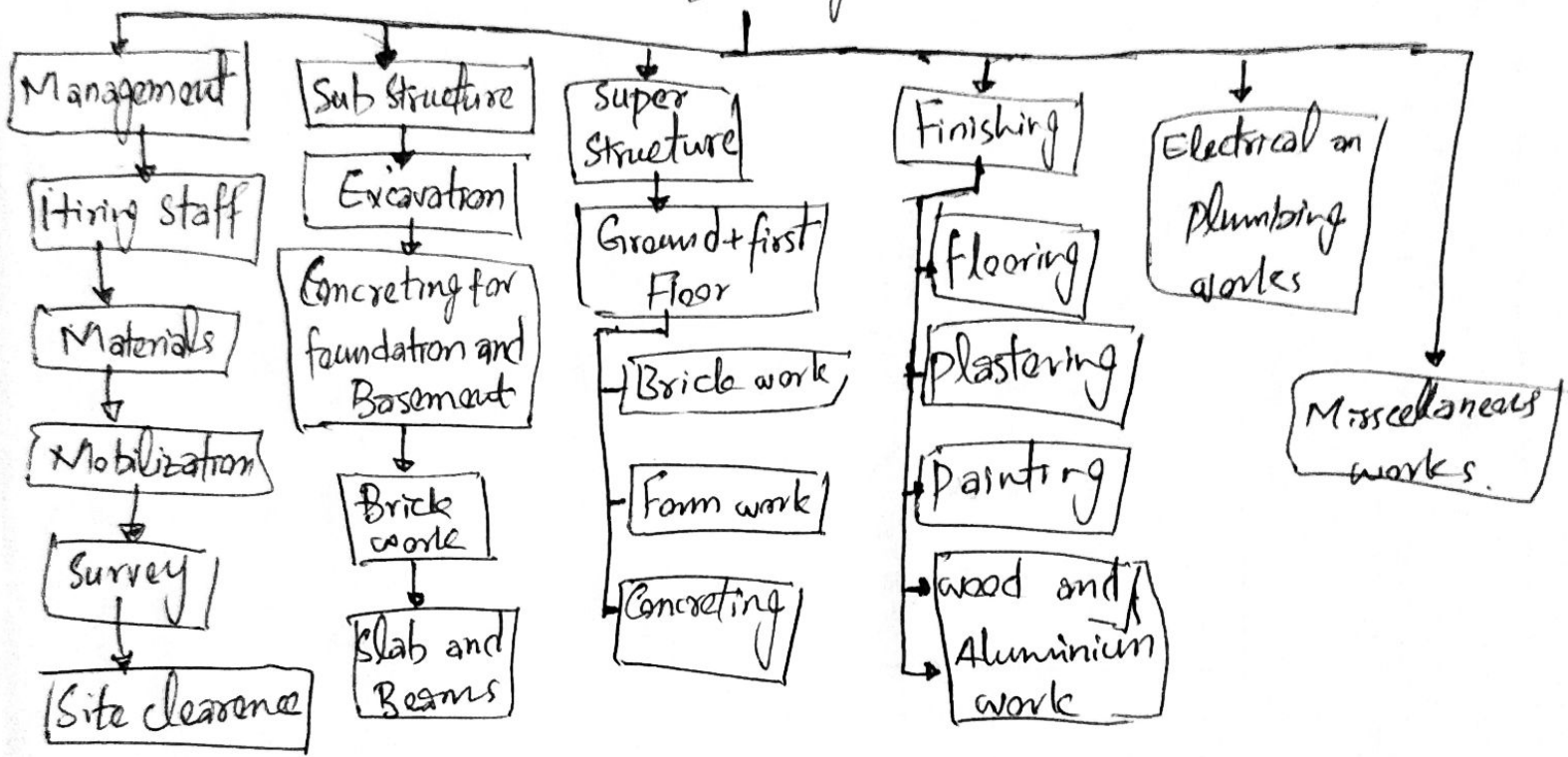
Subject # Construction Management

Q: Activity List of a two story building.

- ① Survey
- ② Mobilization
- ③ Grubbing of site
- ④ Layout
- ⑤ Excavation
- ⑥ Foundation and columns
- ⑦ Formwork
- ⑧ Concreting
- ⑨ Curing
- ⑩ flooring
- ⑪ wood work.
- ⑫ Plumbing & Sanitary work
- ⑬ Electrification
- ⑭ Finishing
- ⑮ Miscellaneous

Work Breakdown Structure:

Construction of Building



Qno 8: Critical path Method of the Building.

Activity	I	Predecessors	Duration in weeks
Survey	A	.	1
Mobilization	B		1
Grubbing of site	C	A	1
Layout and Excavation	D	C	2
Formwork	E	D	2
Foundation and column	F	E	3
Concreting	G	F	3
Brickwork	H	F	3
Plumbing and Sanitary work	I	G,H	2
Electrification	J	G,H	2
Finishing	K	I,J	2
Flooring	L	K	2

There are two paths of our project
Path A and B.

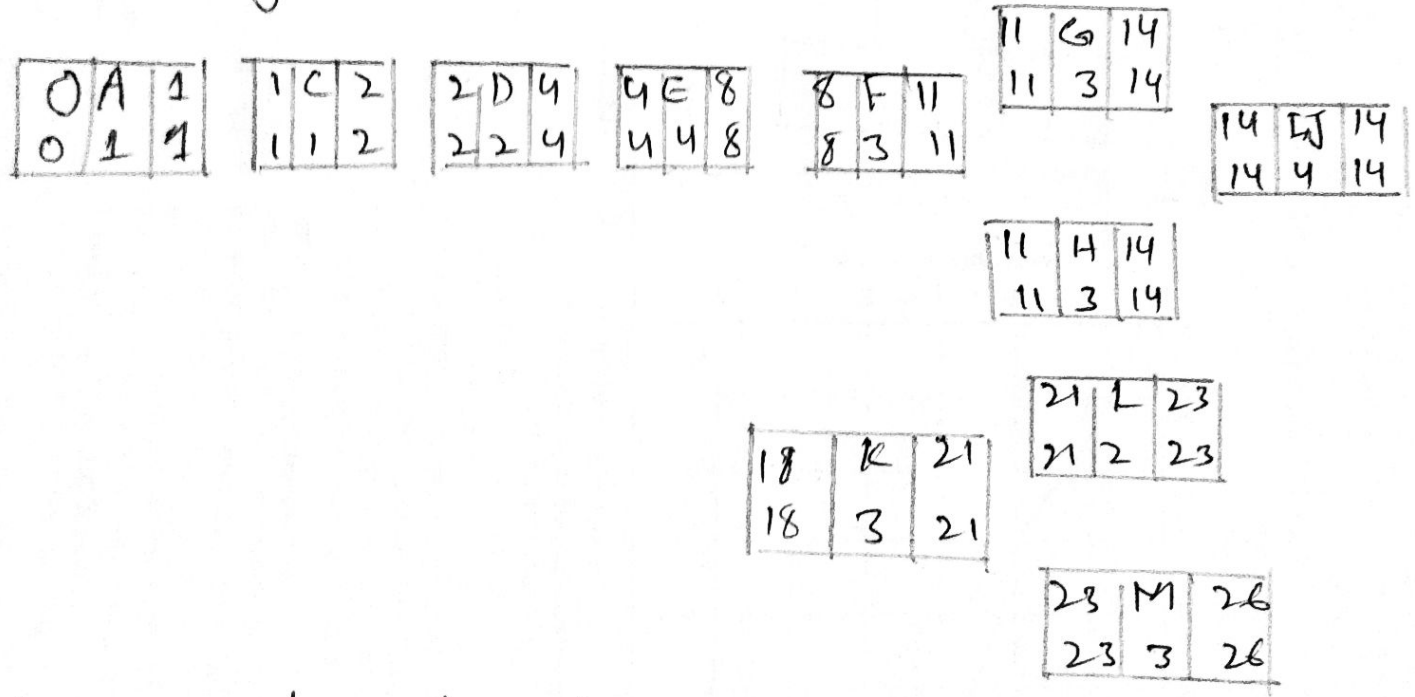
Path A (ACDEFGHIJKLM) having 26 weeks

Path B (ACDEFHIJKM) having 23 weeks

So the critical path of our project is path
A which has more time.



Q4/c Provide Maximum time taken by
Project.



As according to forward pass and backward pass
Maximum time for our project is

26 weeks.

Q51 Provide Slack Time for the Activities: (5)

Slack = late finish - early finish

$$A = 1 - 1 = 0$$

$$C = 2 - 2 = 0$$

$$D = 4 - 4 = 0$$

$E = 8 - 8 = 0$ and so on all

values comes zero so

no slack



