

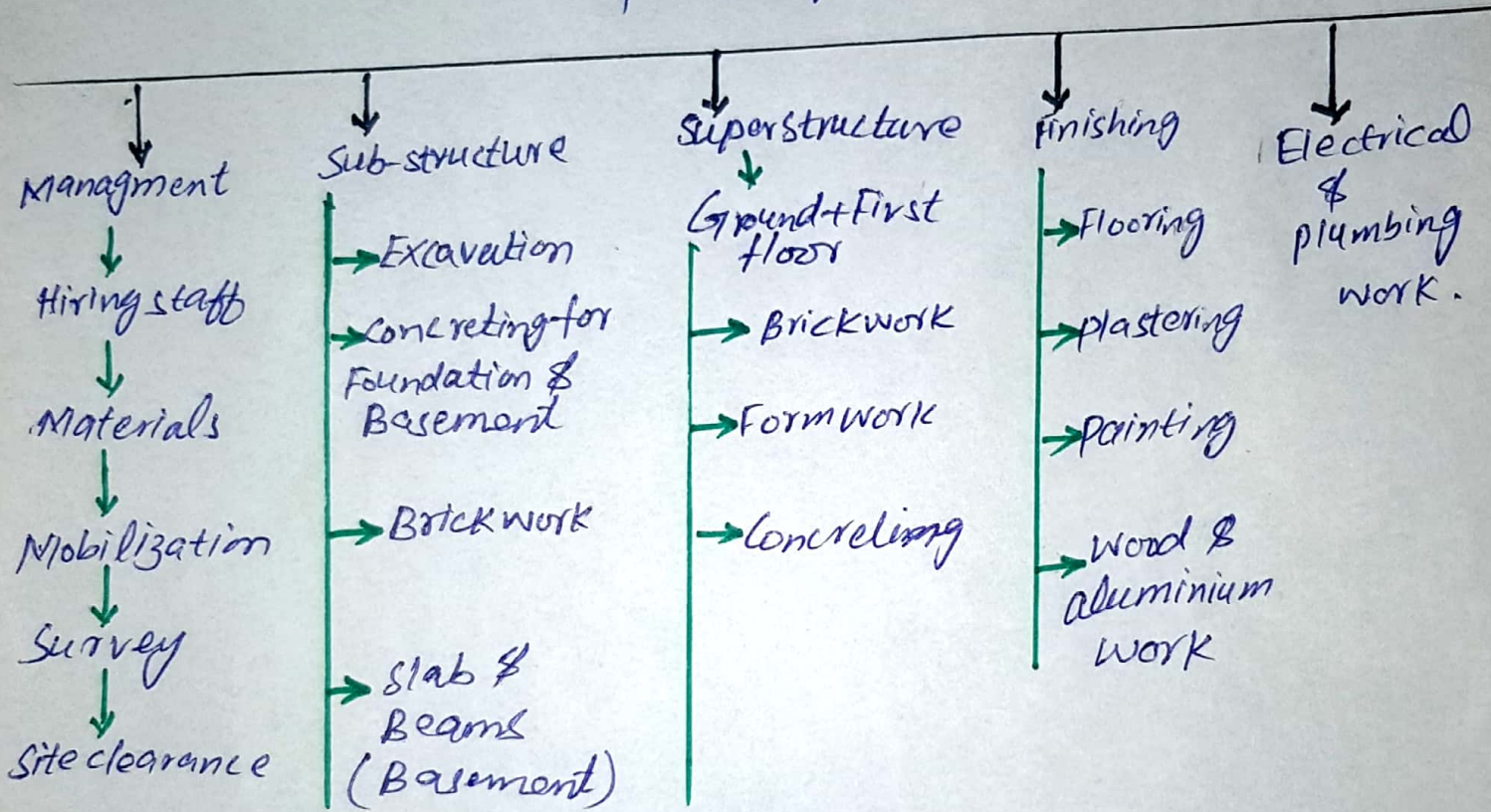
Name Asim Siddiq
ID 7691
Section A
Subject Construction Management
Instructor Dr. Engr. Zeeshan Ahad
Department BE (C)
Semester 8

Activity list of building and time line of each activity:-

Task name	Duration	Start	Finish	predecessors.
① Planning & survey	1 weeks	4-16-2020	4-22-2020	
(2) site preparation	0.5 wks	4-23-2020	4-27-2020	1
3 Excavation for Basement & layout	2 wks	4-27-2020	5-11-2020	2
4 Foundation				
(4) Foundation (Excavation, lead concrete)	0.5 wks	5-11-2020	5-13-2020	3
5 Foundation (Reinforcement and concreting)	0.7 wks	5-14-2020	5-19-2020	4
6 Column & Brickwork	2.5 wks	5-19-2020	6-4-2020	5
7 Formwork	2.5 wks	6-6-2020	6-23-2020	6
(8) Beam, slab & stair (Reinforcement, Utilities and concreting)	2 wks	6-23-2020	7-7-2020	7
(9) Curing	1 wks	7-7-2020	7-14-2020	8
10 Utilities (sewer, Electrical, water & Gas)	2 wks	7-14-2020	7-28-2020	9
11 Plastering & curing	3 wks	7-28-2020	8-18-2020	10
12 Flooring	2 wks	8-18-2020	9-09-2020	11
13 Wood work	4 wks	9-1-2020	9-29-2020	12
14 Painting (interior & Exterior)	2 wks	9-29-2020	10-13-2020	13
15 Finishing (Electricals lighting & Plumbing)	1 wks	10-13-2020	10-20-2020	14

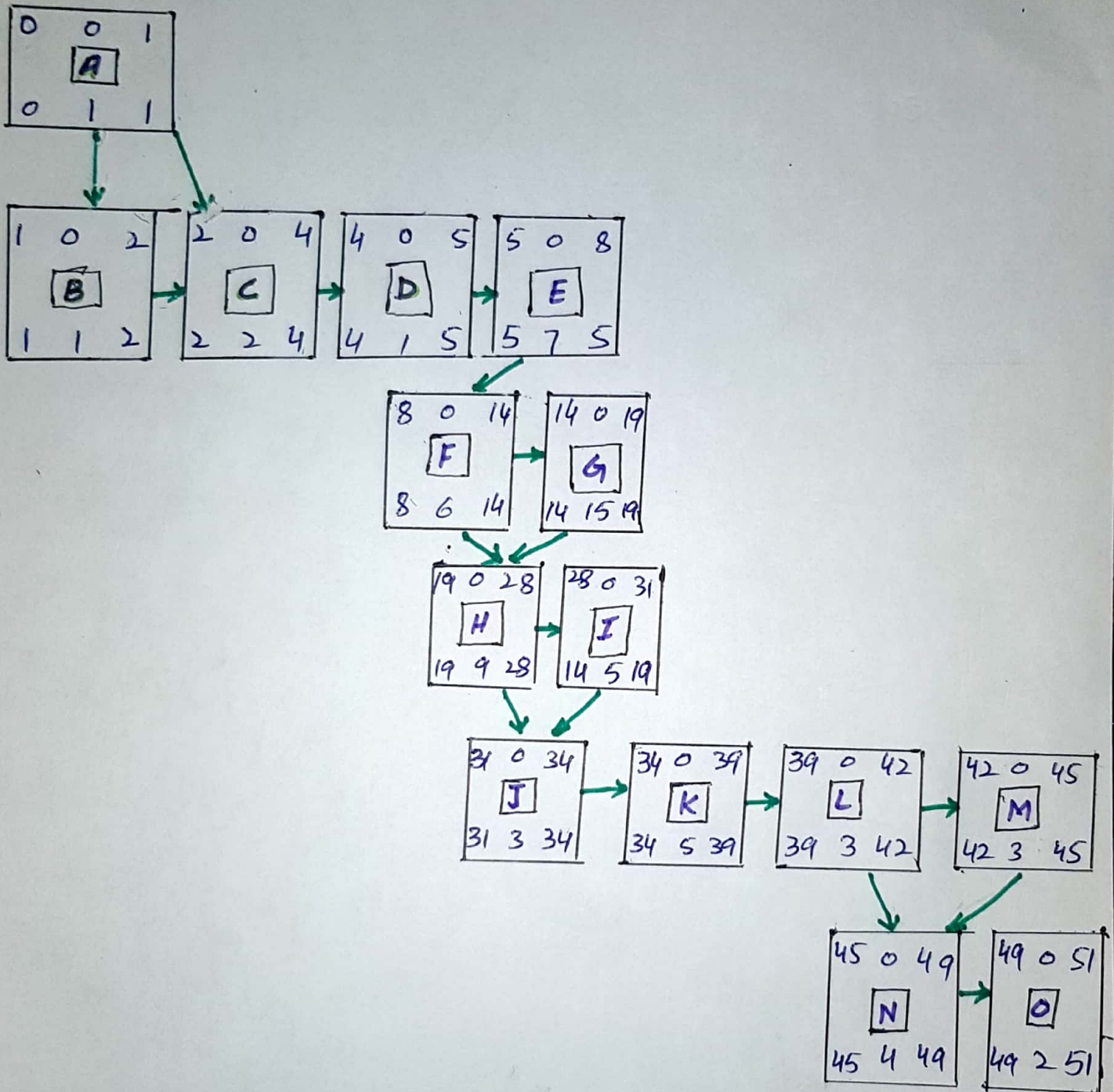
Work Breakdown of Building structure .

Construction of Building



Critical path Method of project.

	Activity	Symbol	Duration (Wks)	predecessors
(1)	Planning & Surveying	A	1	
2	Grubbing of site	B	1	A
3	Excavation for basement & layout	C	2	A, B
4	Foundation (Excavation, lean concrete)	D	1	C
5	Foundation (Reinforcement, concreting)	E	3	D
(6)	Column & Brick work	F	6	E
7	Form work	G	5	F
(8)	Beam, slab, stair (Reinforcements, utilities and concreting).	H	9	F, G
9	Curing	I	3	H
10	Utilities (Sewer, Electrical, water & gas)	J	3	H, I
11	Plastering & curing	K	5	J
12	Flooring	L	3	K
13	Wood work	M	3	L
14	painting (interior & Exterior)	N	4	L, M
15	Finishing (Electrical, lighting & Plumbing).	O	2	N



According to forward and backward pass the maximum time taken by our project is 176 days.

Name Asim Siddiq
ID # 7691

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Path:-

A B C D E F G H I J K L M N O

A C D E F G H I J K L M N O

A B C D E F H J K L N O

A C D E F H J K L N O

A B C D E F G H J K L N O

A B C D E F G H J K L N O

A C D E F G H J K L N O

A ~~B~~ C D E F H I J K L N O

A C D E F H I J K L N O

A C D E F G H I K L N O

Path 1:-

$$1+1+2+1+3+6+5+9+3+3+5+3+4+2$$

Path #2

$$1+2+1+3+6+5+9+3+3+5+3+3+4+2$$

Path #3

$$1+2+1+3+6+9+3+5+3+3+4+2$$

Path #4

$$1+2+1+3+6+9+3+5+3+4+2$$

Path #5

$$1+1+2+1+3+6+5+9+3+5+3+4+2$$

Path #6

$$1+1+2+1+3+6+9+3+5+3+3+4+2$$

Path #7

$$1+2+1+3+6+5+9+3+5+3+4+2$$

Path #8

$$1+1+2+1+3+6+9+3+3+5+3+4+2$$

Path #9

$$1+2+1+3+6+9+3+3+5+3+4+2$$

Path #10

$$1+2+1+3+6+5+9+3+3+5+3+4+2$$

$1 = 51$

$2 = 50$

$3 = 42$

$4 = 39$

$5 = 45$

$6 = 43$

$7 = 44$

$8 = 43$

$9 = 42$

$10 = 47$