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Submitted To

Engr Zeeshan
Ahad

Subject

Construction

MANAGEMENT

Department

BS (civil)

Part 1

List of Activities

- (1) Survey
- (2) Layout
- (3) Excavation
- (4) Lean concrete (1:4:8)
- (5) Column footing
- (6) Column Reinforcement
- (7) Column formwork
- (8) concrete for column
- (9) Brick work up to ground level
- (10) Plastering
- (11) Electrification work
- (12) Sanitary & Plumbing
- (13) Reinforcement for plinth beam
- (14) Formwork for plinth
- (15) concrete work for plinth beam
- (16) Basement slab form work
- (17) Basement beam form work
- (18) Basement slab concreting

(19) Extension of column Reinforcement

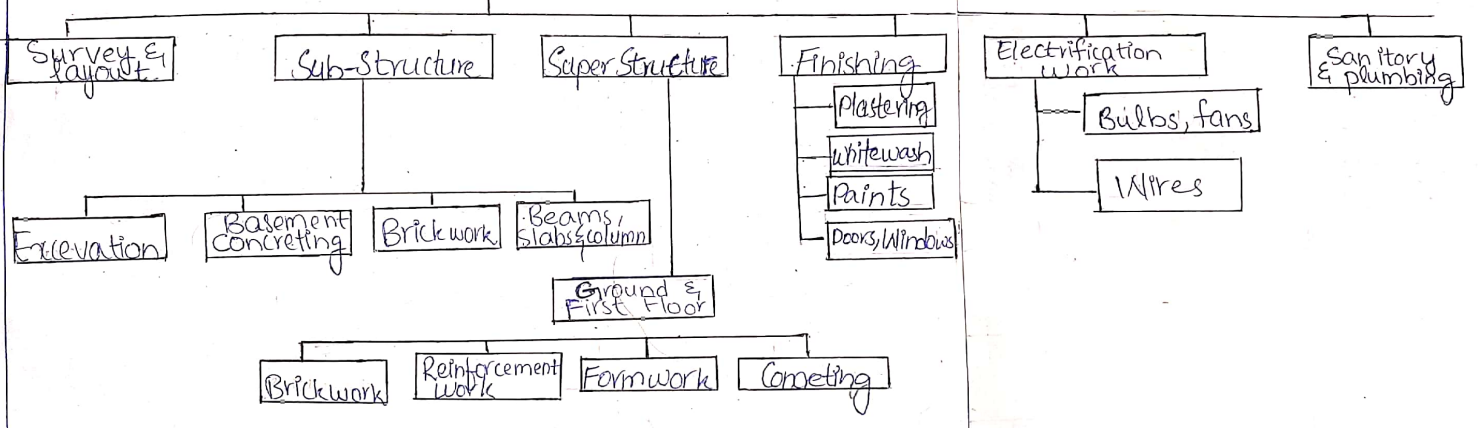
- (20) Formwork for columns of ground storey
- (21) Brick work up to first floor.
- (22) Concrete work for columns of ground storey.
- (23) Formwork for beam & slab of ground floor
- (24) Reinforcement for beam and slab of ground floor
- (25) concrete work for beam and slab of ground floor
- (26) Extension of columns reinforcement for 1st floor
- (27) Brick work of first floor.
- (28) Form work for column of first floor
- (29) Concreted work for column of first floor
- (30) Formwork for beam and slab of first floor.
- (31) Reinforcement for beam and slab of first floor.
- (32) Concreting for beam & slabe of first floor
- (33) Til work
- (34) overe head tank

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- (35) White wash and Colour wash
- (36) Window frames and door frames
- (37) Stair case basement
- (38) Ground floor Stair case
- (39) First floor Stair case.

Work Breakdown Structure

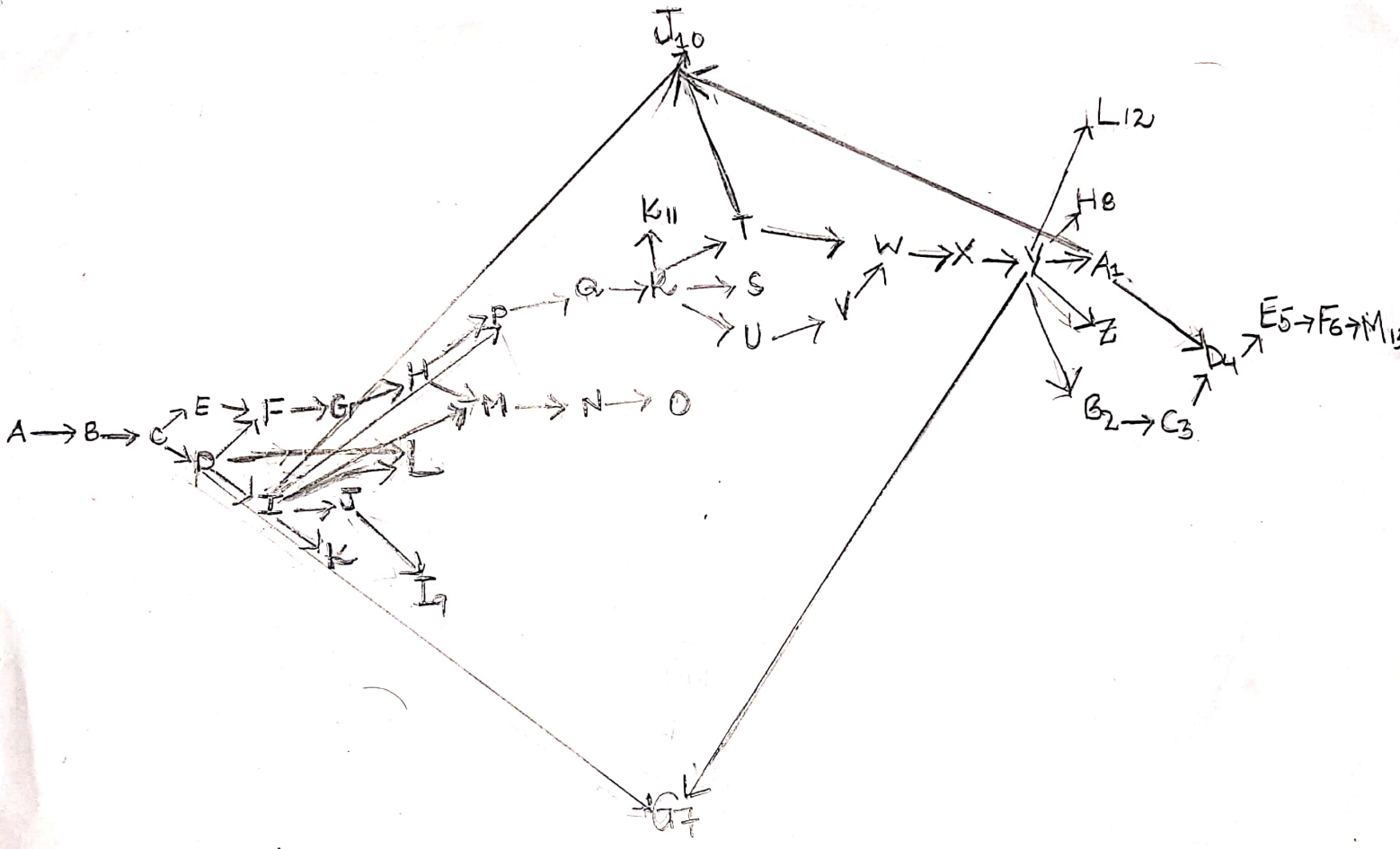
Construction Of House

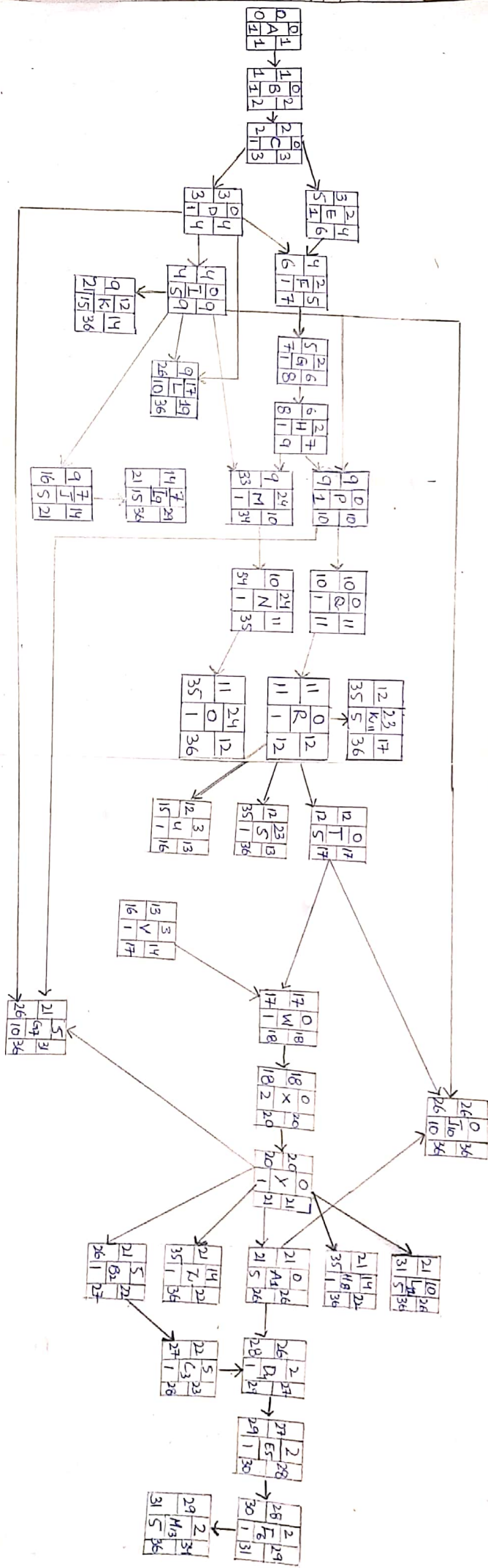


Symbol	Activity	Predecessor	Duration	Slack Time
A	Survey	—	1	0
B	Layout	A	1	0
C	Excavation	B	1	0
D	Lean concrete (1:4:8)	C	1	0
E	Column footing	C	1	2
F	Column Reinforcement	E	1	2
G	Column formwork	F	1	2
H	Concrete for column	G	1	2
I	Brick work up to ground level	D	5	0
J	Plastering	I	5	7
K	Electrification work	I	5	12
L	Sanitary & Plumbing	I, D	10	17
M	Reinforcement for plinth beam	I, H	1	24
N	Form work for plinth	M	1	24

O	Concrete work for Plinth beam	N	1	24
P	Basement slab form work	I, H	1	0
Q	Basement beams form work	P	1	0
R	Basement slab and beam concreting	Q	1	0
S	Extension of column Reinforcement	R	1	23
T	Brick work for columns up to first floor	R	5	0
U	Formwork for columns of ground storey	R	1	3
V	Concrete work for columns of ground storey	U	1	3
W	Formwork for beam and Slab of ground floor	U, T	1	0
X	Reinforcement for beam and slab of ground floor	W	2	0
Y	Concrete work for beam and slab of ground floor	X	1	0
Z	Extension of columns Reinforcement for 1st floor	Y	1	14
A1	Brick work of first floor	Y	5	0
B2	Form work for column of first floor.	Y	1	5

C3	Concrete work for column of first floor	B3	1	5
D4	Form work For beam and slab of first floor	B3, A1*	1	2
E5	Reinforcement for beam and slab of first floor	D4	1	2
F6	Concreting for beam and slab of first floor	E5	10	2
G7	Tile work	D, P, X ^Y	10	5
H8	Over head tank	X	6	14
I9	White wash and colour wash	J	15	7
J10	window frames and door frames	I, T, A1	10	0
K11	Stair case basement	R	5	23
L12	Ground floor stair case	Y	5	10
M13	First floor stair case	F6	5	2





Paths

1) A, B, C, D, I, P, Q, R, T, W, X, Y, A
J₁₀

$$\begin{aligned}\text{Duration} &= 1+1+1+1+5+1+1+1+5+1+2 \\ &\quad +1+5+10 \\ &= 36 \text{ days}\end{aligned}$$

2) A, B, C, D, I, P, Q, R, T, J₁₀

$$\begin{aligned}\text{Duration} &= 1+1+1+1+5+1+1+1+5+10 \\ &= 27 \text{ day}\end{aligned}$$

3) A, B, C, D, I, J₁₀

$$\begin{aligned}\text{Duration} &= 1+1+1+1+5+10 \\ &= 19 \text{ days}\end{aligned}$$

So, Path 1 is critical path.
and maximum time taken by
Project is 36 days.