

# Assignment/Quiz 1



**NAME** : **Jawad**

**ID** : **7779**

**SECTION** : **"A"**

**DEPARTMENT** : **CIVIL Engineering**

**SUBJECT** : **Construction Mgt**

**SUBMITTED TO** : **Engr.M.Zeeshan**

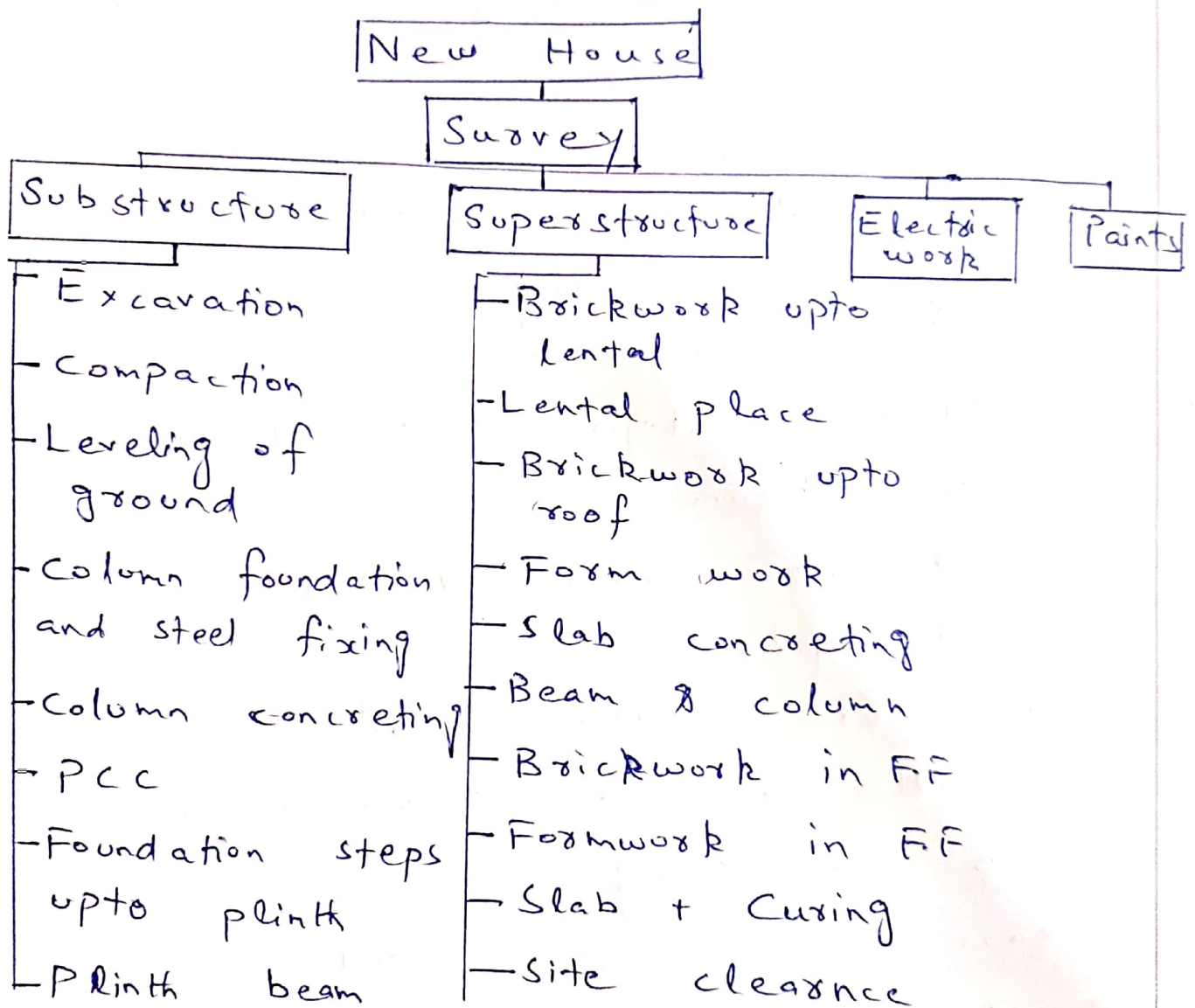
## Question No: 1

(a) Activity List of two story building:

- Survey
- Layout and Marking
- Excavation
- Ground surface compaction
- Leveling of a ground surface
- Lean concrete
- Excavation for column base
- Column foundation steel fixing
- Column concreting
- PCC in foundation
- Foundation steps <sup>up</sup> to plinth
- Plinth beam
- Brickwork upto lintel
- Lintel place
- Brickwork upto roof
- Installation of formwork.
- Slab concreting
- Beam and lintel (G.F)
- Brickwork in 1st floor
- Formwork of 1st floor
- Slab concreting
- Beam and lintel 1st floor

- Doors and windows
- Electric work
- Plumber work
- Painting and finishing
- Site clearing.

## Work breakdown structure of a project.



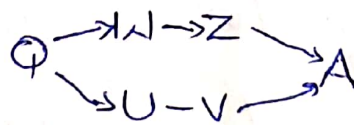
(b) Timeline for a completion of each activity :

Activity	Start date	Duration	End date
Survey	17/04/020	3	19/04/020
Layout & Marking	20/04/020	1	20/04/020
Excavation	21/04/020	7	27/04/020
Ground surface Compaction	28/04/020	1	28/04/020
Leveling of ground surface	29/04/020	1	29/04/020
Lean concrete	30/04/020	1	30/04/020
Excavation for column base	1/05/020	1	1/05/020
Column foundation Steel fixing	2/05/020	2	3/05/020
Column concreting	4/05/020	1	4/05/020
PCC in Foundation	5/05/020	2	6/05/020
Foundation steps upto plinth	7/05/020	13	19/05/020
Plinth beam	20/05/020	2	21/05/020
Brickwork upto lental	22/05/020	14	4/06/020
Lental place	5/06/020	24	8/06/020
Brickwork upto roof	9/06/020	20	28/06/020
Formwork	29/06/020	3	1/07/020
Slab concrete and curing	2/07/020	10	11/07/020

Beam & column (F.F)	12/07/020	3	14/07/020
Electric work (G.F)	12/07/020	3	14/07/020
Brickwork in F.F	15/07/020	20	3/08/020
Electric wiring (G.F)	15/07/020	4	18/07/020
Plastering in G.F	19/07/020	11	29/07/020
Finishing in G.F	30/07/020	2	31/07/020
Formwork in F.F	4/08/020	5	8/08/020
Slab concrete & curing	9/08/020	10	18/08/020
Electric work F.F	19/08/020	4	22/08/020
Painting in house	23/08/020	15	7/09/020
Site clearing	8-09-020	2	9/09/020

(K) Critical path of a project (CPM)

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



Critical path is :

A B C D E F G H I J K L M N O P Q W Z A'

(d) Maximum time taken by project:

The maximum time taken by project is 138 days or 20 weeks

(E) Which activity have slack time:

A u, v activity have slack time.

