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Paper Construction management.
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Question 1 part (a)

Activity list of two story
Building.

- (1) Survey
- (2) Geotechnical Investigation
- (3) Cleaning of Site
- (4) Excavation
- (5) Steel work
- (6) Foundation steps footing
- (7) Plinth Beam
- (8) Brick work in Ground floor.
- (9) Slab concrete + curing.
- (10) Beam & column 1st floor.
- (12) Electring in (F.F)
- (13) Brick work in (F.F)
- (14) Plastering in (G.F)

- (16) Finishing in (G.F)
- (17) Slab concrete in (F.F)
- (18) Paints in First Floor.
- (19) Site clearance

(Break down structure

New House



Survey

Sub structure

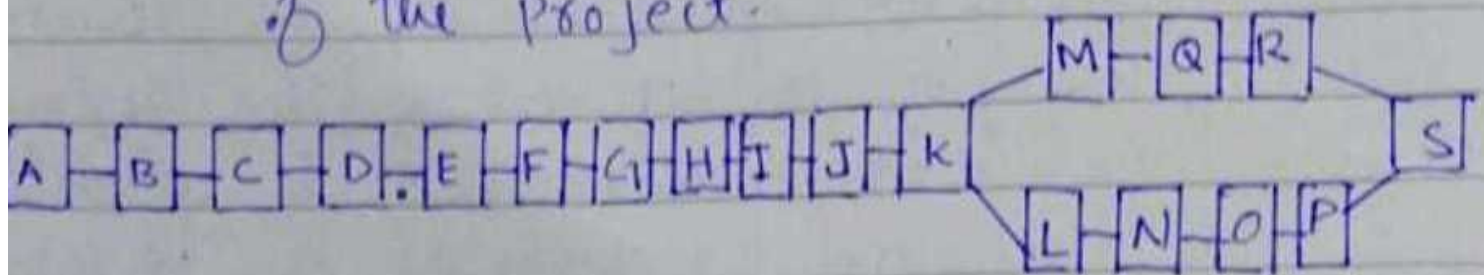
Super structure

- | | | Electric work | Plum work | Paint work |
|---------------------|----------------------------|---------------|-----------|------------|
| → Excavation | → Break work upto Contal | | | |
| → Compaction | → Contal place | | | |
| → 1:4:8 | → Brick work upto roof | | | |
| → Column foundation | → Form work | | | |
| → Stee fixing | → Slab work | | | |
| → Column concreting | → Slab concreting + curing | | | |
| → Foundation Step | → Beam & Column | | | |
| → up to plinth. | → Brick work in F.F | | | |
| → Plinth Beam | → Slab concrete in (F.F) | | | |

No	Activity	Start date	Duration	End date
A	Survey	18-4-2020	4	21-4-2020
B	Geotechnical investigation	22-04-2020	2	23-4-2020
C	Cleaning of site	24-04-2020	4	27-4-2020
D	Excavation	28-04-2020	7	5-05-2020
E	Steel work	6-05-2020	2	8-05-2020
F	Foundation ^{steps} Footing	9-05-2020	13	22-05-2020
G	Plinth Beam	23-05-2020	2	25-05-2020
H	Brick work in G.F	26-05-2020	24	21-06-2020
I	Form work of G.F	22-06-2020	3	25-06-2020
J	Slab concrete casting	26-06-2020	10	6-07-2020
K	Beam & Column 1st footing	7-07-2020	4	11-07-2020
L	Electrification in G.F	7-07-2020	3	9-07-2020
M	Brick work in F.F	12-07-2020	20	1-08-2020
N	Plastering in G.F	10-07-2020	15	24-07-2020
O	Painting in G.F	25-07-2020	7	1-08-2020
P	Finishing in G.F	2-08-2020	2	3-08-2020
Q	Slab concrete (F.F) ^{Curing}	2-08-2020	10	11-08-2020
R	Paint in F.F	12-08-2020	7	18-08-2020
S	Site clearance	19-08-2020	3	21-08-2020

Qc Answer.

Prepare a Critical Path (L.P.M)
of the Project.



Answer (d)

Critical Path is

A B C D E F G H I J K M Q R S

The maximum time taken by project
is 112 day or 16 weeks.

Answer (e).

L, N, O, P activities
have slack time.