

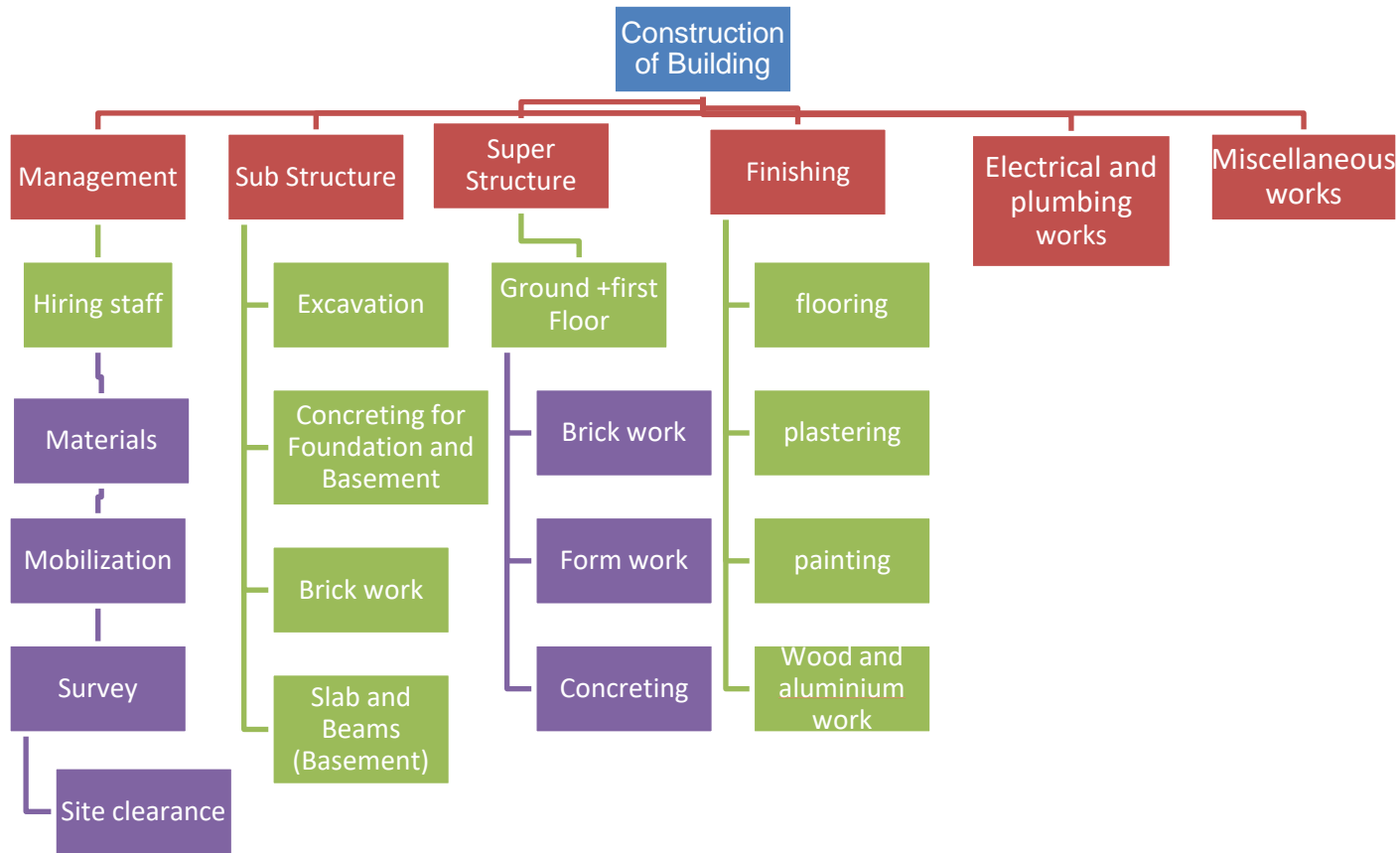


<b><u>NAME</u></b>	AAMAR GHAFOR
<b><u>ID</u></b>	7728
<b><u>SECTION</u></b>	A
<b><u>COURSE</u></b>	Construction Management
<b><u>SUBMITTED TO</u></b>	DR.Engr Zeeshan Ahad

**1)Activity list of a two story building :**

- Survey
- Mobilization
- Grubbing of site
- Layout and Excavation
- Foundation And columns
- Brick masonry Walls
- Formwork
- Concreting ( beams and Slab)
- Curing
- Flooring
- Wood work
- Plumbing and sanitary work
- Electrification
- Finishing
- Miscellaneous

### **Work Breakdown structure of building**

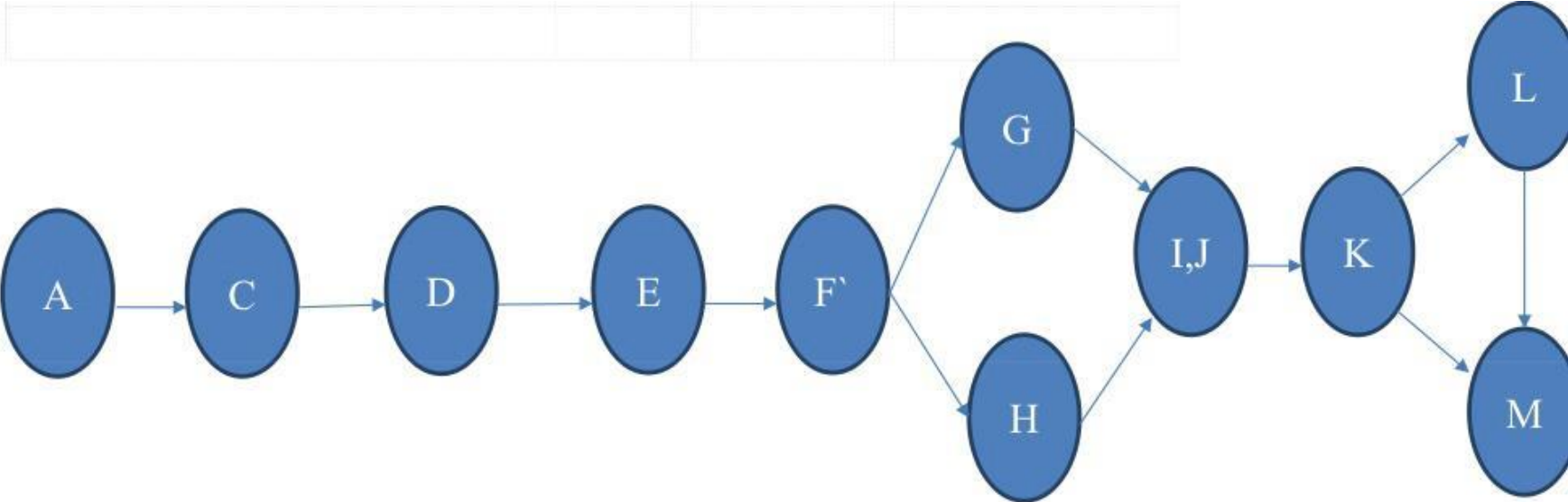


**Q.2) Timeline of the project separately attached in the excel spread sheet**

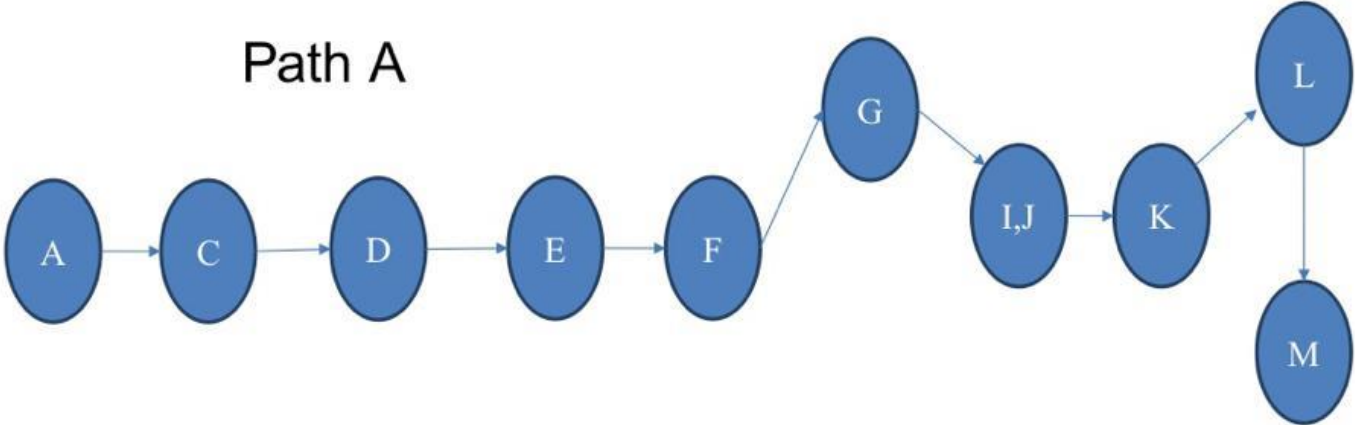
**Q.3) Critical path Method of the project**

Activity		Predecessors	Duration in weeks
<b>Survey</b>	<b>A</b>		<b>1</b>
<b>Mobilization</b>	<b>B</b>		<b>1</b>
<b>Grubbing of site</b>	<b>C</b>	<b>A</b>	<b>1</b>
<b>Layout and Excavation</b>	<b>D</b>	<b>C</b>	<b>2</b>
<b>Formwork</b>	<b>E</b>	<b>D</b>	<b>4</b>
<b>Foundation and column</b>	<b>F</b>	<b>E</b>	<b>3</b>
<b>Concreting ( beams and Slab)</b>	<b>G</b>	<b>F</b>	<b>3</b>
<b>Brick work</b>	<b>H</b>	<b>F</b>	<b>3</b>
<b>Plumbing and sanitary work</b>	<b>I</b>	<b>G,H</b>	<b>2</b>
<b>Electrification</b>	<b>J</b>	<b>G,H</b>	<b>2</b>
<b>Finishing</b>	<b>K</b>	<b>I,J</b>	<b>3</b>
<b>Flooring</b>	<b>L</b>	<b>k</b>	<b>2</b>
<b>Wood work</b>	<b>M</b>	<b>K,L</b>	<b>3</b>
<b>Miscellaneous</b>	<b>N</b>		<b>3</b>

# PRECEDENCE DIAGRAM

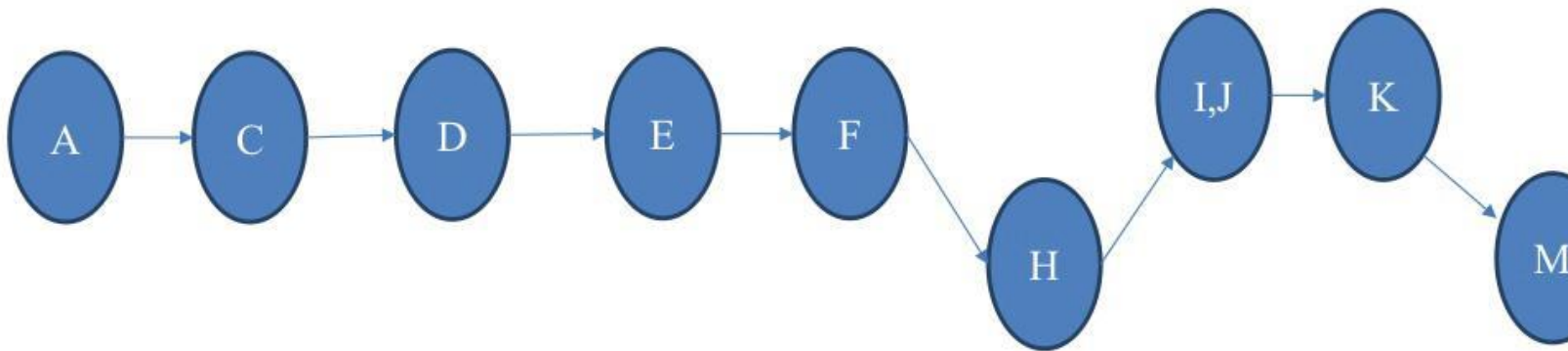


Path A



---

## PATH B



---

There are two paths as shown in figure

- PathA(ACDEFGIJKLM) having 26 weeks
- path B(ACDEFHIJKM) having 24 weeks

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

**Q.04 provide maximum time taken by project....**



$$A = 1 - 1 = 0$$

$$C = 2 - 2 = 0$$

$$D = 4 - 4 = 0$$

E = 8 - 8 = 0 and so on all values comes zero so no slack

Slack = late start – early start

$$A = 0 - 0 = 0$$

$$C = 1 - 1 = 0$$

$$D = 2 - 2 = 0$$

$$E = 4 - 4 = 0$$

And so on all values comes zero so no slack.



