SUBJECT CODE: **MTH601**

Assignment # 01 Spring 2019

**Note:** Please Check it twice by yourself and also make some changes, Don’t make exact copy paste technique otherwise you will get mark 0 (zero) if you make same copy.

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**Solution:**

1. **Construct the table which shows the relationship**

|  |  |
| --- | --- |
| **Activities** | **Predecessor**  |
| **A** | **-** |
| **B** | **A** |
| **C** | **-** |
| **D** | **C** |
| **E** | **B** |
| **F** | **D, E** |
| **G** | **F** |

1. **Calculate the following**
	1. Earliest Start Time
	2. Earliest Finish Time
	3. Latest Start Time
	4. Latest Finish Time

**Answer:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | **Earliest Start Time** | **Earliest Finish Time** | **Latest Start Time** | **Latest Finish Time**  |
| A | 0 | 4 | 0 | 4 |
| B | 4 | 11 | 4 | 11 |
| C | 0 | 6 | 6 | 12 |
| D | 6 | 11 | 13 | 18 |
| E | 11 | 18 | 11 | 18 |
| F | 18 | 24 | 18 | 24 |
| G | 24 | 29 | 24 | 29 |

1. **Calculate the total float of each activity**

**Answer**: Float = Latest Finish Time – Earliest Finish Time

|  |  |
| --- | --- |
| **Activity** | **Float** |
| A | 0 |
| B | 0 |
| C | 6 |
| D | 7 |
| E | 0 |
| F | 0 |
| G | 0 |

1. **Critical Path**

There are 2 Paths

A+B+E+F+G = 4 +7 + 7 +6+5 = 29

C+D+F+G=6+5+6+5 =22

A+B+E+F+G longest Path hence it is critical path 29

1. **Project Completion Time** is 29 Days