Construct a CPM chart using the following data and note which path is the critical path.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | **Title** | **Immediate Predecessors** |   | **Time (weeks)** |
| 1-2 | A | n/a |   | 1 |
| 2-3 | B | A |   | 5 |
| 2-4 | C | A |   | 2 |
| 3-5 | D | B |   | 2 |
| 3-7 | E | B |   | 2 |
| 4-5 | F | C |  | 2 |
| 4-8 | G | C |   | 3 |
| 5-6 | H | D, F |   | 2 |
| 6-7 | I | H |   | 3 |
| 7-8 | J | E, I |   | 3 |
| 8-9 | K | G, J |   | 2 |

|  |
| --- |
| **Deliverables** |

Using the table above, construct a CPM diagram. Identify all possible paths, calculate the time to complete each of them, and identify which path is the critical path. Submit a copy of this in your report in an MS Word document.

|  |  |  |
| --- | --- | --- |
|  | **L A B    S T E P S**  |  |

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| **STEP 1: CPM Diagram** |  |

Using a method of your choice (i.e.,  Excel, Word, Visio, etc.), construct a CPM diagram. Copy the completed diagram to an MS Word document.

|  |  |
| --- | --- |
| **STEP 2: Possible Paths** |  |

Calculate the time to complete each path. Copy your calculations and show your work, please. Post to an MS Word document.

|  |  |
| --- | --- |
| **STEP 3: Critical Path** |  |

Identify which path is the critical path. Copy your answer to an MS Word document and submit your completed lab via your dropbox.