Homework 1 – Scheduling

(18 points)

**Instructions**

* Submit as a single **Word** document via email
* Document Name shall be: Homework2-<LastName,FirstName>
  + Example *Homework2-Snerfle,Burf*
* Email Subject Line shall be: CSCI3350-<Your Section Number>:Homework2
  + Example *CSCI3350-001:Homework2*
* Due via email prior to noon on
  + 19 Sept

**Questions**

1. Given the following values for slt, mlt, llt, what value for the task duration is calculated using the nominal PERT formula? (2)

slt = 12 mlt = 15 llt = 27

1. What value for the task duration is obtained by using the following weights for slt, mlt, and llt? (2)

slt weight = 2 mlt weight = 11 llt weight = 5

1. With the information in the following table use Microsoft Project to create a Gantt Chart.

Project Award Date: 6 October 2014

All task dependencies are Finish to Start

|  |  |  |  |
| --- | --- | --- | --- |
| Task | Task Name | Effort(Man -weeks) | Depends Upon |
| 1 | Task A | 6 | Award Date + 2 weeks |
| 2 | Task B | 4 | 1 |
| 3 | Task C | 1 | 1 |
| 4 | Task D | 1 | 2 |
| 5 | Task E | 2 | 2 |
| 6 | Task F | 12.5 | 3 |
| 7 | Task G | 9 | 3 |
| 8 | Task H | 2 | 4 |
| 9 | Task I | 1 | 5,6 |
| 10 | Task J | 5 | 9 |
| 11 | Task K | 6 | 7 |
| 12 | Task L | 2 | 8,10,11 |

Personal assigned

|  |  |  |
| --- | --- | --- |
| Task | Task Name | Personal Assigned |
| 1 | Task A | Samantha, Ray, George |
| 2 | Task B | Samantha, Ray |
| 3 | Task C | George |
| 4 | Task D | Ray |
| 5 | Task E | Bob |
| 6 | Task F | George, Alex, Rich(1/2 time) |
| 7 | Task G | Rich (1/2 time), Julie |
| 8 | Task H | Ray |
| 9 | Task I | Samantha |
| 10 | Task J | Bob |
| 11 | Task K | Julie, Rich |
| 12 | Task L | Ray |

Milestones

|  |  |  |
| --- | --- | --- |
| Milestone | Milestone Name | Dependency |
| 1 | MS 1 | Award Date + 1 week |
| 2 | MS 2 | Beginning of Task B |
| 3 | MS 3 | 6 weeks post MS 2 |
| 4 | MS 4 | End of Task G |
| 5 | MS 5 | 2 weeks prior to beginning of Task I |
| 6 | MS 6 | End of Task L |

For this question, submit:

1. In your Word document, include a copy of the Gantt chart, on a separate page – landscape mode, with the critical path marked by Microsoft Project. Only the task number and name should appear in the grid area at the left of the chart. The Gantt chart should fill the wide of the page. (5)
2. In your Word Document, include a copy of the Network chart, on a separate page – landscape mode – with legend. The network chart should fill the width of the page. (3)
3. What would be the effect on the project if Task C were to take 3 weeks to complete? (2)
4. What would be the effect on the project if Task E were to complete in 1 week? (2)
5. What would be the effect on the project if Task J were to take an additional 2 weeks to complete? (2)