12. Assume you have Multiple Development Organization (MORG) rating that evaluates the impact of MORGs on software development. If a single development organization (company) located at a single-site completes a SW project in 100 Person-month (PM), the multiple (4) companies at the same-site should complete the project in about ……….. PM.

a. 400 b.125 c.100 d.75 e.25

21. A decision tree analysis is one of the powerful techniques for analyzing and quantifying the risks. Assume there are two strategies for the schedule of a SW project; aggressive and conservative. Assume also that $200,000 bonus will be given to your company for being early with an aggressive schedule and the probability of success for this option is 20%. Assume $800,000 penalty for being late with any schedule. What should be the probability of being on time so that the choice aggressive or conservative strategies by the SW Project manager is not important.

|  |  |  |  |
| --- | --- | --- | --- |
| **Stage Name** | **Amount of Risk** | **Dollar Value of the Project** | **Amount of Risk Mitigation Impact** |
| Idea | 16 | 0 | 0 |
| Concept/System exploration | 14 | 2 | 28 |
| Requirements | 12 | 4 | 48 |
| Design | 10 | 6 | 60 |
| Implementation | 8 | 8 | 64 |
| Installation | 6 | 10 | 60 |
| Operations and support | 4 | 12 | 48 |
| Maintenance | 2 | 14 | 28 |
| Retirement | 0 | 16 | 0 |