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## 

## IT414 - Software Project Management

Functional Point Estimation

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Exercise-1:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Complexity | | |  |
| Description | Low | Medium | High | Total |
| Inputs | 0 x 3 | 8 x 4 | 1 x 6 | **38** |
| Outputs | 0 x 4 | 4 x 5 | 0 x 7 | **20** |
| Queries | 0 x 3 | 0 x 4 | 3 x 6 | **18** |
| Files | 1 x 7 | 2 x 10 | 3 x 15 | **72** |
| Program  Interfaces | 0 x 5 | 2 x 7 | 2 x 10 | **34** |

Total Unadjusted Function Points (TUFP): 182

(0=no effect on processing complexity; 5=great effect on processing complexity)

|  |  |
| --- | --- |
|  | 0-5 |
| Data communications | 2 |
| Heavily use configuration | 4 |
| Transaction rate | 3 |
| End-user efficiency | 5 |
| Complex processing | 4 |
| Installation ease | 2 |
| Multiple sites | 3 |
| Performance | 4 |
| Distributed functions | 3 |
| On-line data entry | 4 |
| On-line update | 3 |
| Reusability | 4 |
| Operational ease | 5 |
| Extensibility | 3 |

Processing Complexity (PC): 49

Adjusted Processing Complexity (PCA) = 0.65 + (0.01 \* 49 )

Total Adjusted Function Points (TAFP): 1.14 \* 182 = **207.48**

Exercise-2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Complexity | | |  |
| Description | Low | Medium | High | Total |
| Inputs | 0 x 3 | 2 x 4 | 1 x 6 | **14** |
| Outputs | 0 x 4 | 2 x 5 | 1 x 7 | **17** |
| Queries | 0 x 3 | 1 x 4 | 0 x 6 | **4** |
| Files | 0 x 7 | 0 x 10 | 1 x 15 | **15** |
| Program  Interfaces | 0 x 5 | 0 x 7 | 1 x 10 | **10** |

Total Unadjusted Function Points (TUFP): 60

(0=no effect on processing complexity; 5=great effect on processing complexity)

|  |  |
| --- | --- |
|  | 0-5 |
| Data communications | 2 |
| Heavily use configuration | 4 |
| Transaction rate | 3 |
| End-user efficiency | 4 |
| Complex processing | 3 |
| Installation ease | 2 |
| Multiple sites | 3 |
| Performance | 4 |
| Distributed functions | 3 |
| On-line data entry | 4 |
| On-line update | 4 |
| Reusability | 2 |
| Operational ease | 4 |
| Extensibility | 3 |

Processing Complexity (PC): 45

Adjusted Processing Complexity (PCA) = 0.65 + (0.01 \* 45 )

Total Adjusted Function Points (TAFP): 1.1 \* 60 = **66**