**Functional Point Estimation**

**1) Software Project Management**

| Question | VAFs |
| --- | --- |
| Does the system require reliable backup and recovery? | 5 |
| Are specialised data communications required to transfer information to or from the application? | 2 |
| Are there distributed processing functions? | 0 |
| Is performance critical? | 3 |
| Will the system run in an existing , heavily utilised operational environment? | 3 |
| Does the system require online data entry? | 4 |
| Does the online data entry require the input transaction to be built over multiple screens or operations? | 0 |
| Are the ILFs updated online? | 0 |
| Are the inputs, outputs, files or enquiries complex? | 3 |
| Is the internal processing complex? | 3 |
| Is the code designed to be reusable? | 4 |
| Are conversions and installations included in the design? | 0 |
| Is the system designed for multiple installations in different organisations? | 0 |
| Is the application designed to facilitate change and ease of use by the user? | 5 |

Value Adjustment Factor = Σfi = 32

Now,

Complexity Adjustment Factor (CAF) = 0.65 + (0.01 \* ∑fi)

=> 0.65 + (0.01 \* 32)

=> 0.65 + 0.32

=> 0.97

| **Functional Units** | | **Weighing Factors** | | |
| --- | --- | --- | --- | --- |
|  | **Count** | **Simple** | **Average** | **Complex** |
| External Inputs | 3 | 3 | 4 | **6** |
| External Outputs | 4 | **4** | 5 | 7 |
| External Enquiries | 3 | 3 | **4** | 6 |
| Internal Logical files | 3 | 7 | **10** | 15 |
| External Interface Files | 2 | **5** | 7 | 10 |

Unadjusted Function Point (UFP) = 3\*6 + 4\*4 + 3\*4 + 3\*10 + 2\*5

=> 18+16+12+30+10

=> 86

Now,

Function Point = UFP \* CAF = 86 \* 0.97

=> 83.42 ~ 84