Name:……..
ID:……

Exercise 1: Estimation for Project A

Description:

Calculate UFP

Function Type	Estimated Count	Weight	FP-Count
EI	24	(Average) 4	96
EO	16	(Average) 5	80
EQ	22	(Average) 4	88
ILF	4	(Average) 10	40
ELF	2	(Average) 7	14
UFP count			**318**

Exercise 2: Estimation for Project B

Description:

External Inputs	**Complexity**
Data Stream	High
Configuration files	Low
User Selection	Medium
User Input	Low
External Output	**Complexity**
Telemetry Data1 screen	Medium
Telemetry timing screen	Low
Telemetry Data2 Screen	Medium
Status Screen	Medium
Internal Logical Files	**Complexity**
Storage file	Medium
Intermediate buffer	High
Intermediate Result	Low
Channel Files	Low
External Interface Files	**Complexity**

External Interface for Data2 Low

External Queries

Not Any.

1.	Data Communications	2
2.	Distributed Data Processing	0
3.	Performance	5
4.	Heavily Used Configuration	5
5.	Transaction Rate	2
6.	Online Data Entry	4
7.	End-User Efficiency	3
8.	Online Update	5
9.	Complex Processing	4
10.	Reusability	5
11.	Installation Ease	4
12.	Operational Ease	3
13.	Multiple Sites	4
14.	Facilitate Change	5

Calculate UFP, FP

Parameters	**Low**	**Medium**	**High**
External Inputs	**2***3=6	**1***4=4	**1***6=6
External Outputs	**1***4=4	**3***5=15	**0***7=0
External Queries	**0***3=0	**0***4=0	**0***6=0
Internal Logical Files	**2***7=14	**1***10=10	**1***15=15
External Interface Files	**1***5=5	**0***7=0	**0***10=0

UFP = 16 + 19 + 0 + 39 + 5 = 79

CAF = 0.65 + 0.01*51 = 1.16

FP = UP * CAF = 79 * 1.16 = 91,64

Exercise 4: Estimation for Project D

Calculate the function score value for a project with the information field characteristic as follows:

- Input: 32
- Output: 60
- Inquiry: 24
- Logical file: 8
- External interface: 27

Assume all complexity adjustment values are average. Calculate the feature point value under the same conditions.

Calculate FP

FP = UFP * CAF.

UFP = 32*4 + 60*5 + 24*4 + 8*10 + 27*7 = 793

CAF = (0.65 + 0.01*(14*3)) = 1.07

FP = 793 * 1.07 = 848,51

Exercise 4: Based on the functional score in Exercise 3, calculate the conductivity measures:

- Productivity
- Quality
- Cost
- Data

Of which: person = 12, month = 4, number of errors = 1000, total cost = $ 150,000,000, number of data pages = 200.

Productivity = FP / (Person * month) = 848,51/(12*4) = 17,678.

Quality = number of errors / FP = 1000/ 848,51 = 1.18

Cost = total cost /FP =150.000.000/848,51 = 176.780,5

Data = number of data pages / FP = 200/ 848,51 = 0.2356

Exercise 6:

Assuming:
Estimated FP = 401
Organisation average productivity (similar project type) = 6.5 FP/p-m (person-month)
Burdened labour rate = 8000 $/p-m
Then
Estimated effort = ?
Cost per FP = ?
Project cost = ?

Estimated effort = 401/6.5 = (61.65) = 62 p-m
Cost per FP = 8000/6.5 = 1231 $/FP
Project cost = 8000 * 62 = 496000 $