Cocomo

O cocomo o stands for construct

@ It is used for determining the cost of a SIN project.

cost.

a) Effort

b) Time.

(1) Human Resource d) Money. IV) There are three types of a) Organic b) Semi detached C) Embetcht embedded Size of the Product: Li 0-5KLOC >5 - \$ 300KLOC > 30 KLOC Formula: 1) E: = a* (KLOC) 6 S/m a b 009 3.2 1.05 S-d 3.0 1.12 cmbol 2.8 1.201 Ei = Initial Effort. & BKLOC = Size of the project. P = person M = month 11) EAF = f(*, be) m) $m = (m_1, m_2, \dots, m_{15})$ Effort adjuctment factor=f(*,m) m = operand/ multiplying function. en stands for final effort.

IV) to = C*(Ef)d month

3/m	0	b	C	d
084	3.2	1.05	215	3,8
S-d	3.0	1.12	2.5	3.5
embol	2.8	1.20	2.5	3,2

V) Staffing
$$size = \frac{Et}{tD}$$
, persons in a Jean.

VI) total developement

VII) Productivity 0 = (Size), KLOC/P-M

VIII)
$$FVP = F = P(1+i)^n$$
 money

FVA consist future value Amalysis.

t = interest . eale

The relation by KLOC & Modk)

For e lang, R20l: FPA = 128:1 (128)

In a S/W project there are tollowing phases with corresponding documentation. Planning 2 500 PLOC, analysis à = 250 PLOC, Design=200. Mointainance=150 210C, testing=300 20C.

The different attributes of the project are given; complexity = 1,250

efficiency = 75% relaybelity = 80% and ethicacy = 1,50

The developement cost for the project is given 2000 inviday. Apply cocomo for the above project.

foral size 600 300 2000 LO

2000 KLOC = 2KLOC .

20 oganic: E: = a * (KLOC) P.M

2 3.2 × (2)1.05 = 6.625 Embedded

Semi-Defached. B:=3.0x(2)112 6.52 ET = 2.8 x (2) 1.20 = 6.48 P-M

2) Barrier Dofeckede_ EAF = f(*, m)

= 1.25 × 100 × 75 × 80 × 1.50

4)
$$+d = C + (E_1)^d$$

= $1 \times [1.125 \times [3.2 \times (2)^{1.05}]^2 = 55.50 \text{ months}$

5) Staffing Size =
$$\frac{Ef}{4d}$$

= $\frac{7.45}{55.50}$ = 0.134 Size

6) Total Developement cost &

7) Droductivity Size:

Date-17/08/16

9 Value of the constants in cocomo.

1. Organic: 2 to 50 KLOC

2. Sem-Detached > > 50 KLOC to

3. Embedded & >300 KLOC

Model a b c d
Organic 3.2 1.05 2.5 0.38
Sem-Detached 3.0 1.12 2.5 0.35
Embedded 3.6 1.20 2.5 0.32

$$t = P(1+i)^n = P = \frac{F}{(1+i)^n}$$

(A)