Q:1

LOC = 20000 .

Programmer = 5

develop = 150 LOC/day

LOC/day done by 5 progr

→ 5 x 150 = 750 LOC/day

LOC ÷ LOC/day to find in~~s~~ how mayda

20000/750 = 26.67 days ≈ 27

Q:2

LOC = 50000

programmers = 8

develop = 120 LOC/day

LOC/day of ~~each~~ 8 progra:

8 x 120 = 960 LOC/day

Duration of project = ? = LOC/loc/day

= 50000 / 960 = 52.08 ≈ 52 days

Q:3 LOC = 40000 ⇒ total estimated effort for project in person-months = ?

programmers = 4

LOC/day = 80

time = 20 weeks

LOC/day of 4 progr: = 4 x 80 = 320 LOC/day

days in 20 weeks = 20 x 7 = 140 days

Effort = Duration * No: of programmer

= 140 * 4 = 560 person-days

Convert person-day to person-month.

∴ 22 working days / Month

∴ ⇒ 560 / 22 = 25.45 person-month

Q.4 LOC = 75000
programmer = 10
develop = 100 LOC/day
Month = 6
effort person-months = ?

LOC/day of 10 programmer = 10 x 100 = 1000 loc/d
~~days in 6 months = 6 x 22 = 42 days~~
~~Effort = 42~~
day in 6 months = 6 * 22 (working day)
= 132 days
Effort = 132 * 10 = 1320
Effort person-month = 1320 / 22 (working day)
= 60 person-month

Q.5 LOC = 25000
Programmer = 6
develop = 125 LOC/day
Months = 3
min: no: of program: = ? = total LOC / (LOC/day/P
Duration = 3 * 22 (working day) = 66 days

min: no: of prog: = 25000 / 125 * 66
= 3.03 ≈ 3 programmer

Q:6

EI = 10

EO = 8

EQ = 5

Complexity = moderat ⇒ 2 ⇒ $\sum F_i = 14 * 2 = 28$

UFP = 10*4 + 8*5 + 5*4

40 + 40 + 20 = 100

CAF = 0.65 + (0.01*28) → 0.65 + 0.28

0.93

FP = UFP * CAF

100 * 0.93 = 93

Q:7 EI = 3 → complexity = high = 6

EO = 4 → Compalexity = Low = 4

EQ = 2 → " = Averge = 4

$\sum F_i = 14 * 2 = 28$

UFP = 3*6 + 4*4 + 2*21 = 42

CAF = 0.65 + 0.01 * 28 = 0.93

FP = 42 * 0.93 = 39.06

Q8

EI = 6 ⇒ Low = 3 ⇒ 6 × 3 = 18
EO = 5 ⇒ high = 7 5 × 7 = 35
EQ = 3 ⇒ Low = 3 3 * 3 = 9
UFP = 62

CAF = 0.05 + 0.01 * 28 = 0.93
FP = 62 * 0.93
57.66 ≈ 58

Q:9 EI = 2 ⇒ Low = 3 2 * 3 = 6
EO = 3 ⇒ Averge = 5 3 * 5 = 15
EQ = 4 ⇒ hig = 6 4 * 6 = 24
UFP = 45

CAF = 0.93
FP = 45 * 0.93 = 41.85 ≈ 42

Q:10

EI = 8 ⇒ high = 6 8 × 6 = 48
EO = 6 ⇒ high = 7 7 × 6 = 42
EQ = 5 ⇒ Ave. = 4 5 × 4 = 20
UFP = 110

CAF = 0.93
FP = 110 * .93
= 102.3 ≈ 102