(1)

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Question 1: Part (a)

name	caunt	weight	product
user inputs	3	3(S)	9
user outputs	2	7(C)	14
user inquiries	2	6~~7~~(C)	~~14~~ 12
files	1	10(A)	10
external interfaces	4	7(A)	28

total caunt = 73

Part (b)

$SLOC = 50$, $KSLOC = \frac{50}{1000} = 0.05$

$size = FP \times KSLOC$

$= 73 \times 0.05 = 3.65$

$scale\ factor = 0.91 + 0.01(3+4+3+1+3)$

$= 0.91 + 0.01(14)$

$= 1.05$

$Person's\ month = A \times size^{sf} \times [cmi]$

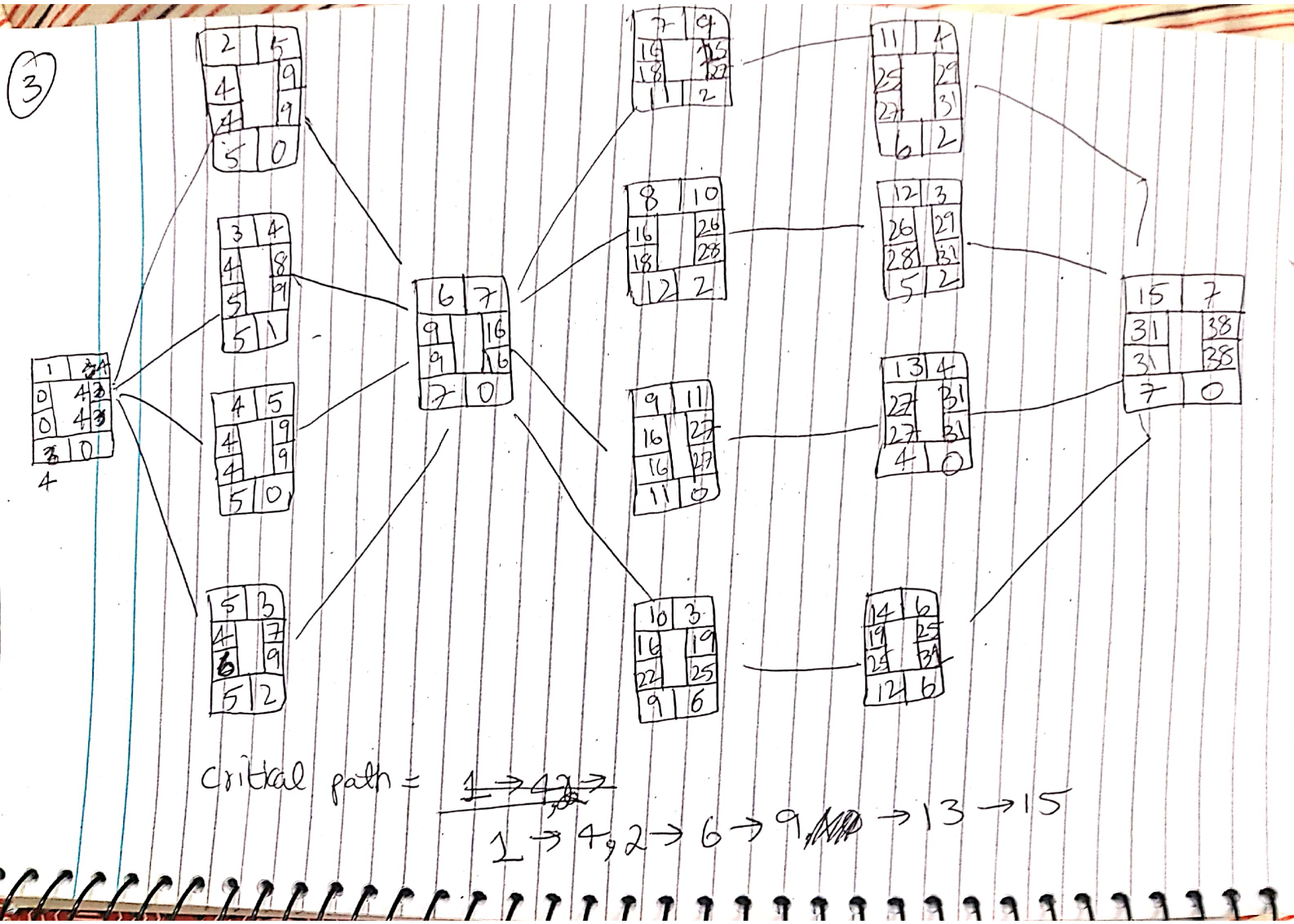
$= 2.94 \times 3.65^{1.05} \times 1.3 \times 1 \times 1 \times 1 \times 1.1 \times 1$

person's month = 19.6459

(2)

Question 2:

#	description	precedents	optimist	likely	pess.	te	Free Float	Int. Float
1	specify overall system		2	4	6	4	0	0
2	specify module A	1	3	5	7	5	0	0
3	specify module B	1	2	4	6	4	1	0
4	" " C	1	3	5	7	5	0	0
5	" " D	1	1	3	5	3	2	0
6	check specs	2,3,4,5	5	7	9	7	0	0
7	design module A	6	7	9	11	9	0	2
8	" " B	6	8	10	12	10	0	2
9	" " C	6	9	11	13	11	0	0
10	" " D	6	1	3	5	3	0	6
11	code module A	7	2	4	6	4	2	0
12	" " B	8	1	3	5	3	2	0
13	" " C	9	2	4	6	4	0	0
14	" " D	10	4	6	8	6	6	0
15	sys integration	11,12,13,14	5	7	9	7	ϕ	ϕ



critical path = ~~1 → 4 → 2 →~~ 1 → 4, 2 → 6 → 9 → 13 → 15

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Question 3:

(b part)

Shorten the critial path:

* Employees should get overtime wark.
* More employees should be aolded to the project.
* Reduce the scope af the project.
* Experienced and educated staff should be added to the crit path.
* aded more resources to project.

Re evaluate precedence requirements:

* Start the activities before precedence completion.
* Sub divide activities as desperate measures, testing af saftware can be reduced.
* quality (averall) af saftware can be reduced.
* ~~exp~~ planing af exception

(a part)

BCWS = 10 x 5 x 5 x 50 = 12,500
BCWP = 10 x 5 x 5 x 40 = 10,000
ACWP = 10,000

SV = -2500
CV = 0
SPI = BCWP/BCWS = 10000/12500 = 0.8
CPI = 1