

Name.....

Student ID.....

OM201, 1/2019

Quiz on Project Management

(15 November 2019: 1 hour)

Instructions:

- * Individual quiz.**
 - * Open book.**
 - * Use of calculator is permitted.**
 - * Show your calculation in detail.**
-

1) Task time estimates for the modification of an assembly line at Jim Goodale's Carbonale, Illinois factory, are as follows:

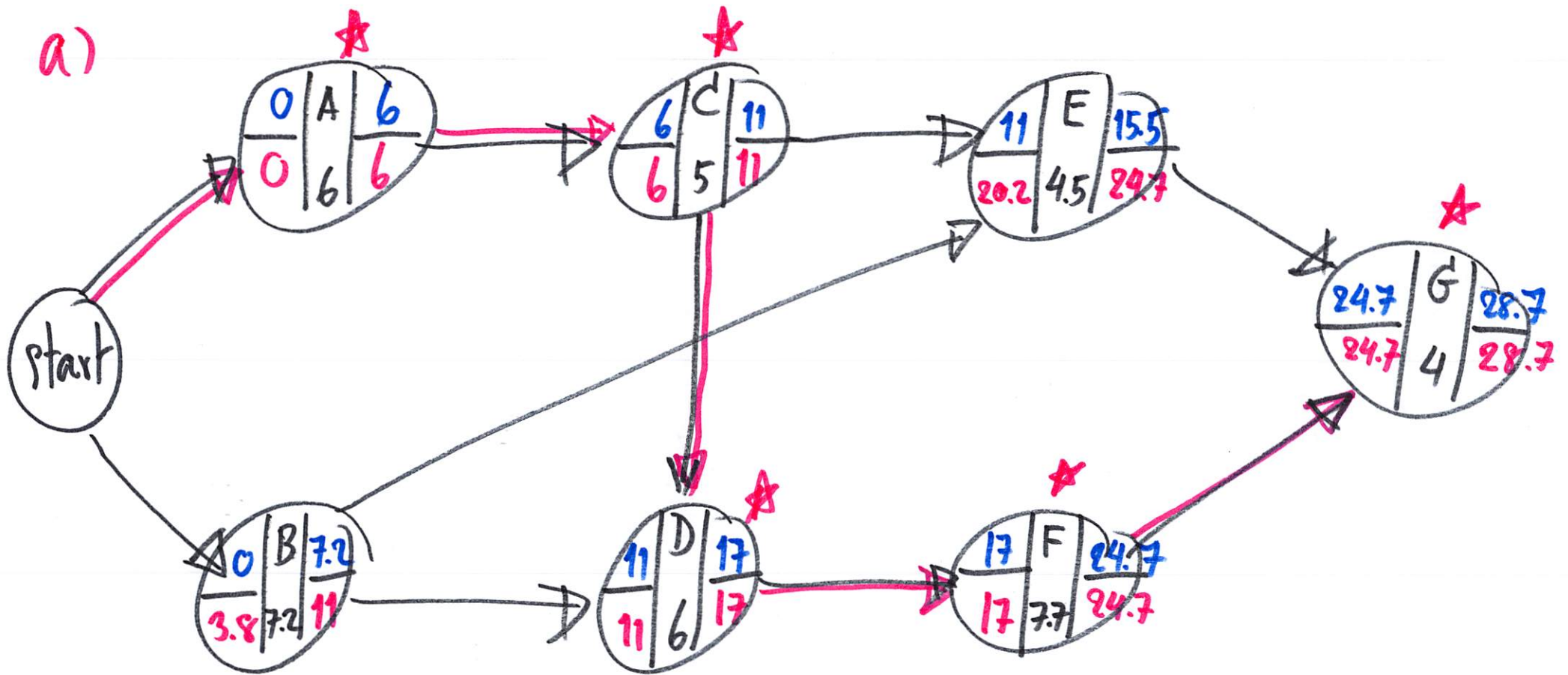
Activity	Time (hours)	Immediate Predecessors
A	6.0	--
B	7.2	--
C	5.0	A
D	6.0	B, C
E	4.5	B, C
F	7.7	D
G	4.0	E, F

- a) Draw the project network using AON.
- b) Identify the critical path. (A set of critical activities)
- c) What is the expected project length?
- d) Which activity has the maximum slack?

Quiz Solution

1)

a)



b) Identify critical path : A-C-D-F-G

c) Expected project length : 28.7 hours

d) Activity E has the maximum slack of 9.2 hours

Name.....

Student ID.....

2) A project network consists of these activities in the following list. Times are given in days.

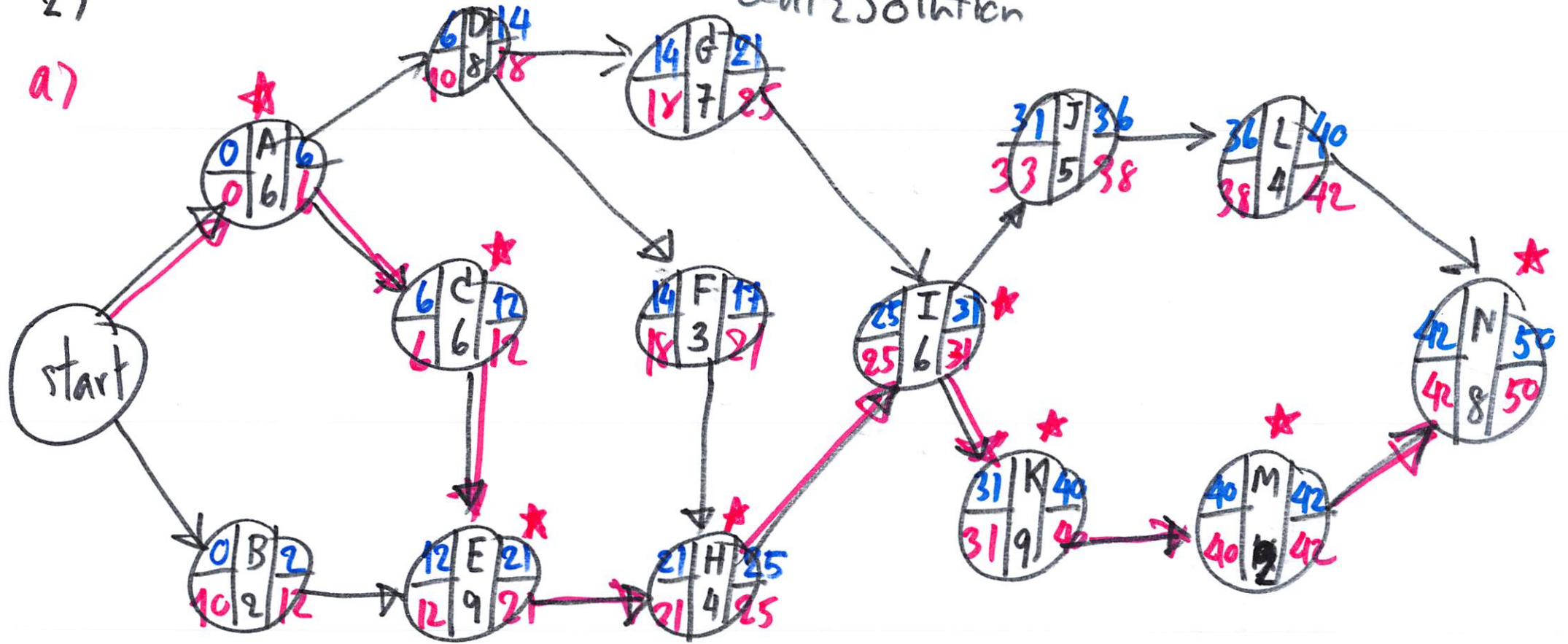
Activity	Preceding	Time (days)
A	--	6
B	--	2
C	A	6
D	A	8
E	B, C	9
F	D	3
G	D	7
H	E, F	4
I	G, H	6
J	I	5
K	I	9
L	J	4
M	K	2
N	L, M	8

- a) Draw the project network using AON.
- b) Identify the non-critical activities.
- c) What is the project completion time?
- d) Which activity has the maximum slack?

2)

a)

Quiz Solution



b) Identify non-critical activities : B, D, F, G, J, L

c) Project completion time : 50 days

d) Activity B has the maximum slack of 10 days.