

BE/OM201
Take home quiz#3: Project Management
15 April 2020, 03:30-05:00 pm.

Student name: **Student ID:**

Instructions:

1. Specify your name and student ID above.
 2. It is an open book quiz and all calculating devices are permitted.
 3. Type or write your answer in the space under each question.
 4. Answer all of **THREE** questions on this quiz.
 5. Before submission, convert your answer sheet file to become PDF or JPEG and attach the file with your email being sent to OM201BE@gmail.com by 05:00 pm of Wednesday of 15 April 2020.
 6. Late submission will be not graded.
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Item 1. Are these statements True or False? (0.1 point per each)

No.	Statements	True or False
1.1	Project organization works best for an organization when the project resides in only one of its functional areas.	
1.2	One responsibility of a project manager is to make sure that the project meets its quality goals.	
1.3	A work breakdown structure is a useful tool in project management because it addresses the timing of individual work elements.	
1.4	Project organization is most helpful for ongoing projects with no termination date.	
1.5	Gantt charts give a timeline and precedence relationships for each activity of a project.	
1.6	CPM, but not PERT, has the ability to consider the precedence relationships in a project.	
1.7	The main difference between PERT and CPM is that: PERT is more accurate than CPM.	
1.8	The shortest of all paths through the network is the critical path.	
1.9	The ES of an activity that has only one predecessor is simply the EF of that predecessor.	
1.10	Slack is the amount of time an activity can be delayed without delaying the entire project.	

Item 2. A network consists of the following list. Times are given in weeks.

Activity	Preceding	Duration
A	--	9
B	A	2
C	A	12
D	A	5
E	B	6
F	B	8
G	C, F	3
H	D	2
I	H	8
J	G, I	6
K	E, J	2

2.1 Draw the network diagram by AON convention.

2.2 Which activities form the critical path?

2.3 How much slack exists at activities A and F?

2.4 What is the duration of the critical path?

Item 3. Consider the network described in the table below. Times are given in weeks.

Activity	Immediate Predecessor(s)	Pessimistic duration	Most likely duration	Optimistic duration
J	--	15	10	8
K	--	9	8	7
L	J	10	6	5
M	J	3	3	3
N	K,M	9	5	1
O	K,M	10	7	4
P	L,N	10	8	3

3.1 Draw the project network by AON convention.

3.2 Calculate the expected duration of each activity.

3.3 Calculate the expected duration and variance of the critical path.