## Critical Path Analysis - Exercises (2 pages; 14/8/19)

(1)(i) [Edx, OCR & MEI] Draw an activity-on-arc network to represent the following project, and establish the earliest and latest event times.

[AQA] Draw an activity-on-node network to represent the following project, and establish the earliest start and latest finish times.

Activity	Immediate predecessors	Duration
А	-	5
В	-	7
С	В	4
D	В	6
Е	D	5
F	А	3
G	F	9
Н	A,C	7
Ι	Е	7
J	F	5
К	D,G,H,I	8
L	D,G,H,I	8
М	Е	9
Ν	J	6
0	L,M	9
Р	0	6

Q	J,K,P	4
R	0	7

(ii) State the critical path(s).

(iii) The duration of each activity can be reduced at a cost (with the amount of possible reduction varying by activity). If the project is to be completed as quickly as possible, describe how the required extra cost can be established.