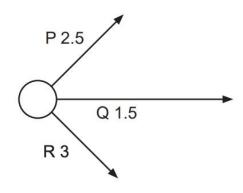
Question 6 (11 marks)

Yana has booked three gardeners to landscape her garden. The table below shows the required activities, together with the times taken (in hours) and the immediate predecessors for each activity.

Activity	Р	Q	R	S	Т	U	V	W	Х
Time (hours)	2.5	1.5	3	1.5	1.5	2	2.5	2	2.5
Immediate Predecessors	ı	_	_	Р	S, Q, U	R	T, X	Р	R

(a) Complete the network diagram below, showing all tasks and durations. (3 marks)



(b) Determine the critical path and the minimum completion time for the project. (2 marks)

(c)	Calcul	Calculate the float time for					
	(i)	Activity W.	(1 mark)				
	(ii)	Activity U.	(1 mark)				

The gardeners start work at 6.30 am. They take only a half-hour break, at 12.30 pm.					
(i)	Determine the latest starting time for Activity P.	(1 mark)			
(ii)	Determine the earliest starting time for Activity V.	(1 mark)			
How, it	f at all, will this affect the minimum completion time for this project (excludi				
	(ii) (ii) One of How, if	 (ii) Determine the latest starting time for Activity P. (iii) Determine the earliest starting time for Activity V. One of the gardeners becomes ill and is unable to work on Yana's landscaping jo How, if at all, will this affect the minimum completion time for this project (excluding the complete of the project). 			