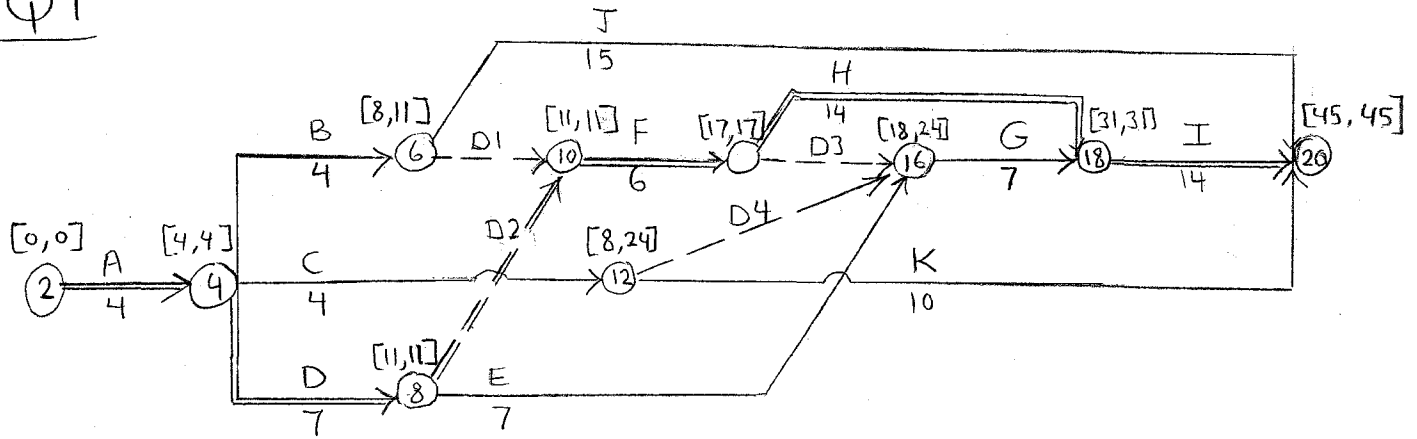
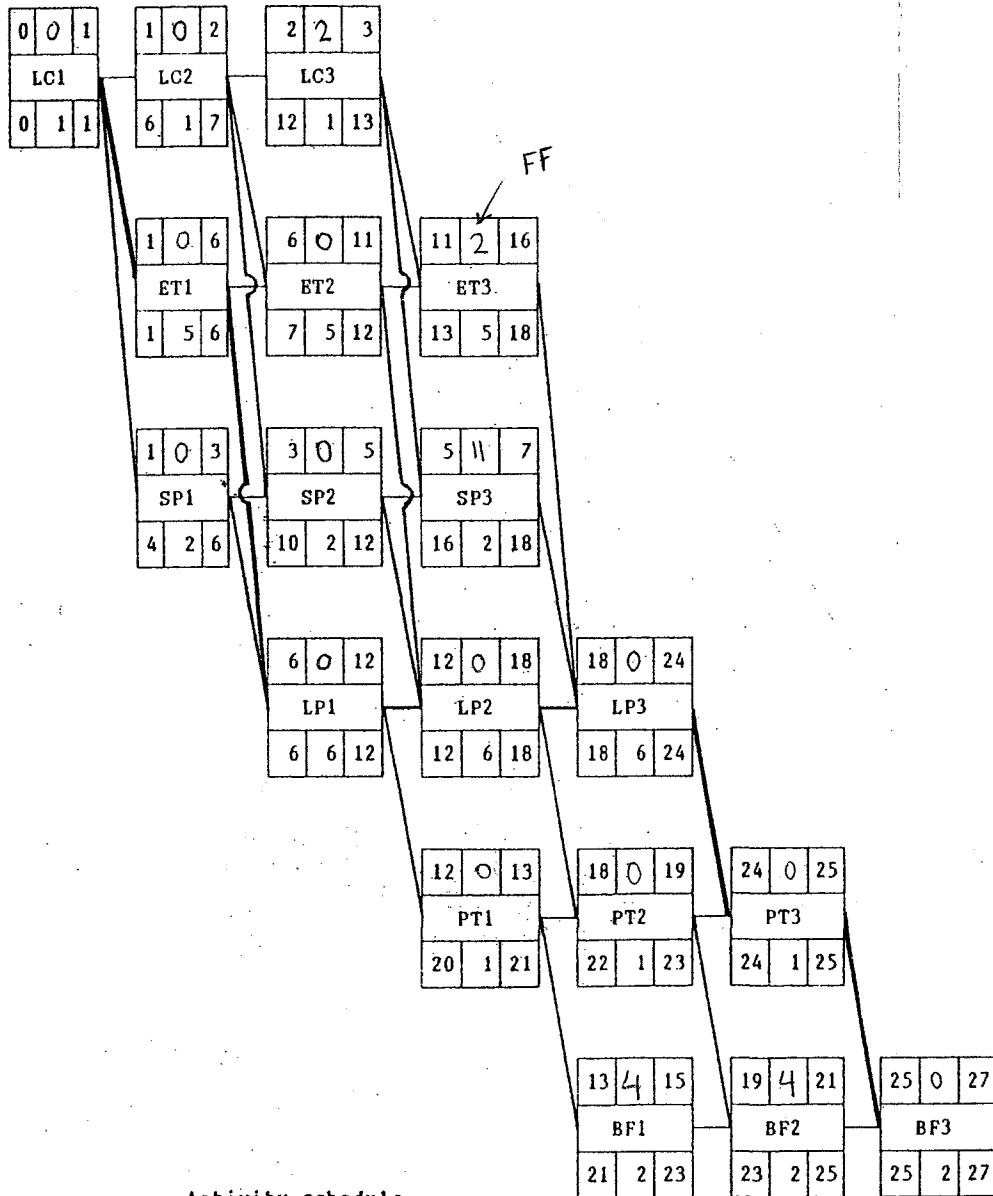


Q1



Critical Path : A/D/D2/F/H/I  
 Project Completion Time = 45 Weeks

Q2



Activity schedule

**Question 3 (40% of max. credit)**

Consider data for a small project given in Table below. Revenue is paid to the contractor every 6 months according to completed quantities of work. Assume that markup is 10% of total project cost and is uniformly distributed over the work. Assume also that work of each activity is uniformly distributed over its duration.

- a) Draw on a scale the project cumulative cost and revenue curves according to ES timings.
- b) Draw on the diagram produced in a) above effect of receipt of 10% of total revenue as an advance payment. This payment will be deducted from each periodic revenue by the same percentage.

Activity	Predecessors	Duration(months)	Monthly cost (SR'000s)
A	-	12	20
B	A	6	60
C	A	12	60
D	B, C	6	50

Advance payment =  $0.1(1782) = 178.2 \times 1000 \text{ SR}$

Month	Revenue x 1000 SR	Adj. Revenue = 0.9 Revenue	Cumulative Revenue
0			178.2
6	132	118.8	297
12	264	237.6	415.8
18	1056	950.4	1128.6
24	1452	1306.8	1485
30	1782	1603.8	1782

