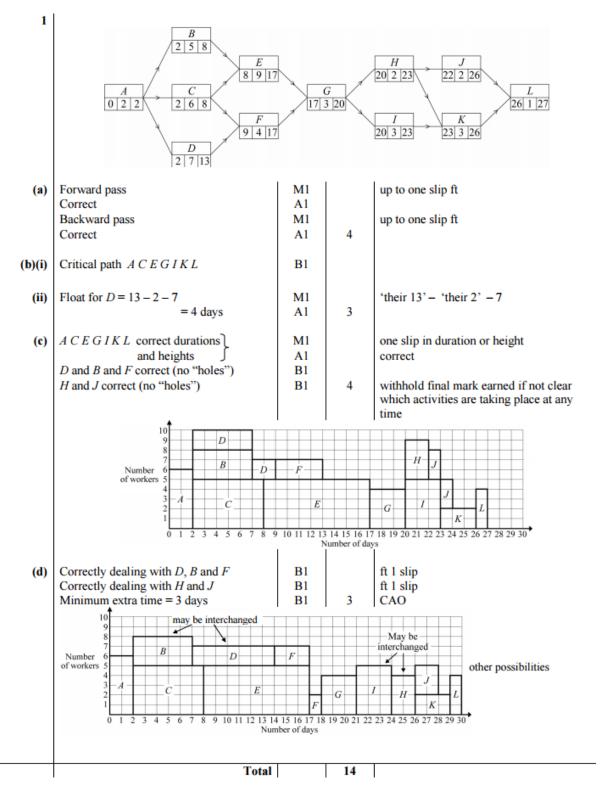
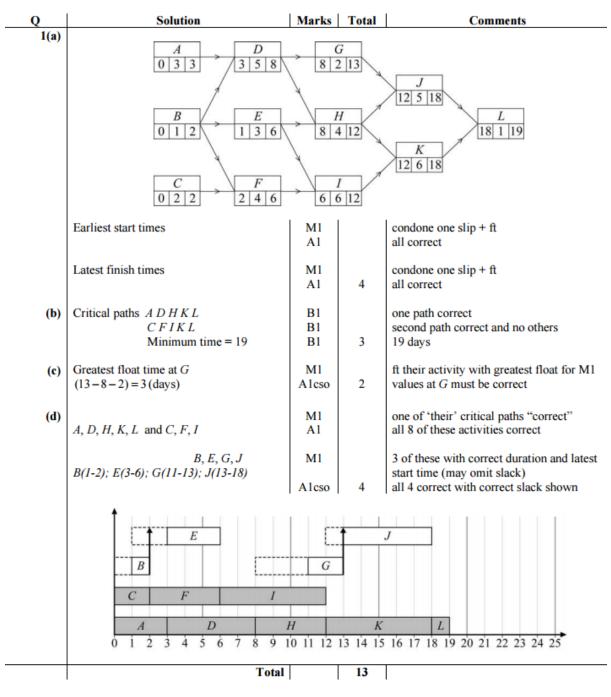
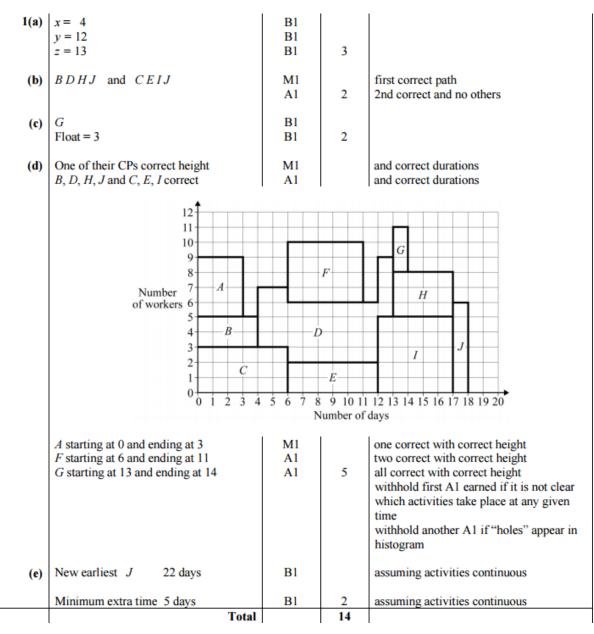


JAN 2011



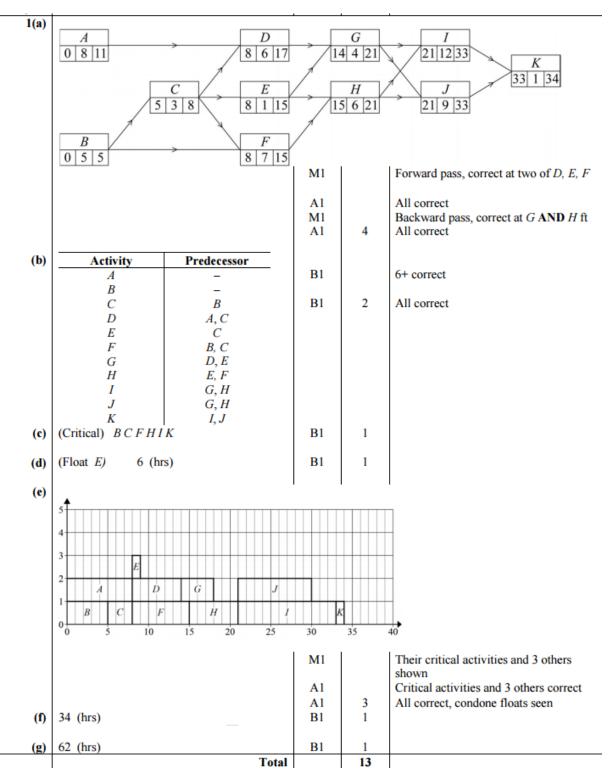


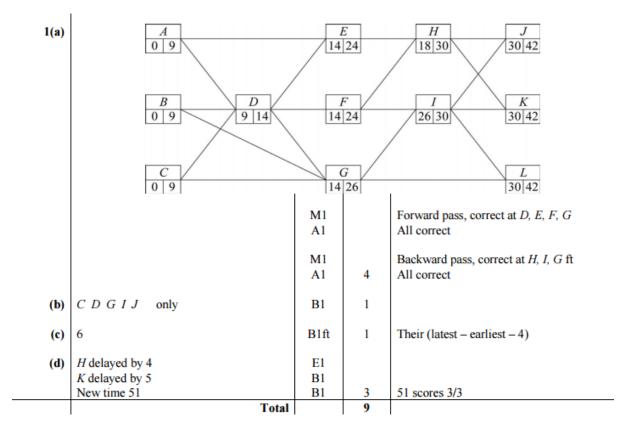
JAN 2012

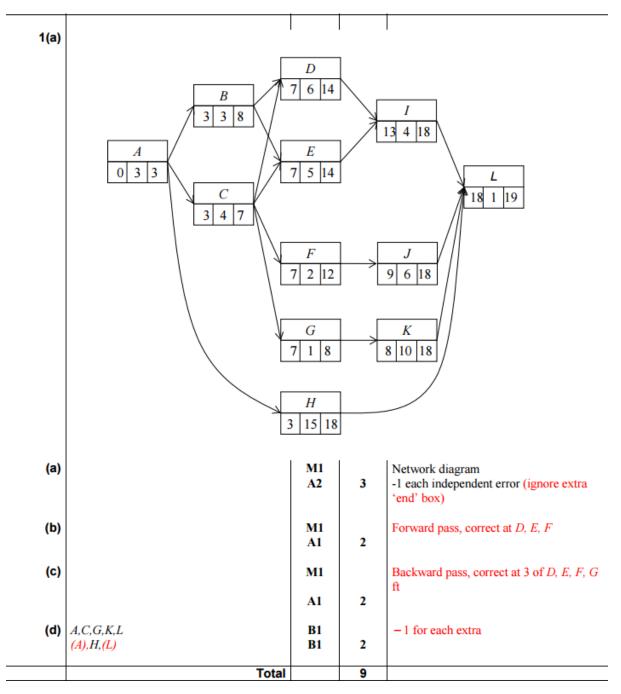


1(a)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
	Forward pass Backward pass	M1 A1 M1 A1	4	condone one slip (follow through) all correct condone one slip (follow through) all correct			
(b)	Critical paths $BEGKN$ DFILN Minimum completion time is 21 days	M1 A1 B1	3	first path correct second path and no others			
(c)	Cascade diagram One of 'their' CPs correct B, D, E, F, G, I, K, L, N A, C, H, J, M	M1 A1 M1 A1 A1	5	may be in blocks or bars (see examples) ft their CP these activities correct 3 of these with correct start and duration 3 correct with correct slack indicated all 5 correct with correct slack			
				Slack A = 0 - 7 = 7 - 8 C = 0 - 5 = 5 - 6 H = 10 - 12 = 12 - 14 J = 6 - 8 = 8 - 16 M = 15 - 18 = 18 - 19			
(d)	(Max value of x is) 10 $\Rightarrow x \leq 10$	M1 A1 cao	2	considering $J_{\text{latest}} - J_{\text{earliest}}$ (condone $x < 11$ for SC2) NMS $x \le 10$ award M1 A1			
	Total		14				

JAN 2013







8(a)	x = 4			
	y = 17	B1		Any 2 correct
	<i>z</i> = 17	B1	2	All 3 correct
(b)	BDGIK	B 1	1	
c(i)	Reduce G to 5 (as critical) oe	E 1		Decrease G by 3
	Reduce F to 4 or 5	E1		Decrease F by 2 or 3
	Reduce F to5	E1		Decrease F by 2
				Condone new values shown on diagram
	Don't reduce E (as path through E still not critical)	E1		
(ii)	25 (weeks)	B1		
(iii)	Cost (3 x 6 + 2 x 7) PI by 32	M1		
	= £32 000	A1	7	
	Total		10	