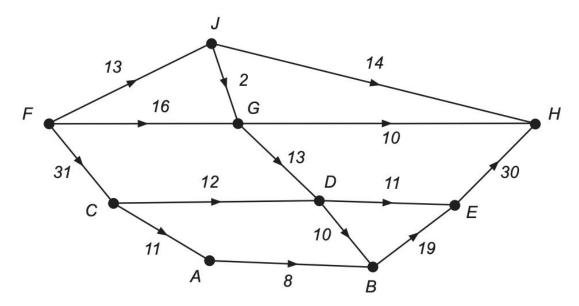
Question 13 (8 marks)

The traffic flow (in hundreds of cars per hour) through a road network (F to H) is shown below.



(a) By listing the different paths and their flow rate, determine the maximum flow through the network. (4 marks)

(b)	Verify the maximum flow obtained in part (a) by showing the minimum cut on the given network. (1 mark)	
(c)	(i)	If <b>one</b> road is to be widened to allow for more traffic, which road should be chosen to increase the maximum flow the most? (1 mark)
	(ii)	How much more traffic should this road allow to flow and what would be the new maximum flow for the network? (2 marks)