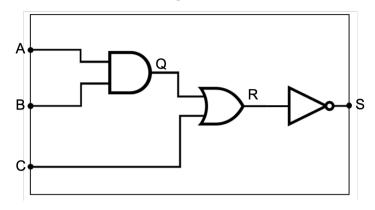
01 A series of logic gates is shown in **Figure 1**. These show a logic system for a house alarm.

Figure 1



01.1 How many input	uts are there	into the sy	vstem :	shown ir	Figure	1?
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	[1 mark]
01.2 Identify the three logic gates used in Figure 1.	[3 marks]
Gate Q:	
Gate R:	
Gate S:	

02 A logic system to control the lights in a classroom is needed.

The system has three inputs:

A: a manual switch

B: a second manual switch

C: a movement sensor which is checked every 10 minutes. If there is no movement in the room the lights should switch off.

The lights should be on if either switch A or switch B is pressed and if the movement sensor is triggered. Draw a logic diagram for the system described.

[2 marks]

