Work s Fig. 8.1 shows a car battery being charged from a 200 V a.c. mains supply.

Q2 WB

Pg # 134

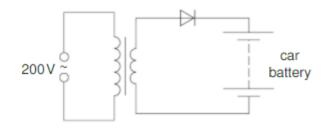


Fig. 8.1

)) State the function of the diode.					
Q3 WB		(a)	Des	scribe the action of			
Pg#135			(i)	a NOT gate,			
				[1]			
			(ii)	a thermistor.			
				[1]			

(b) Fig. 11.1 shows a circuit that switches on a warning lamp when the temperature in an oven falls below a set value.

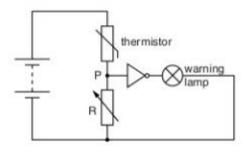
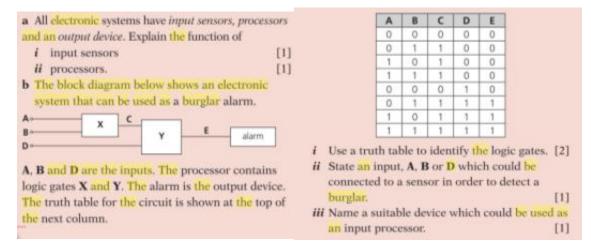


Fig. 11.1

Explain, with reference to the components in the circuit and point P,

(i)	why the warning lamp is on when the temperature in the oven is below the set value,									



Q6 WB pg # 137 Fig. 11.1 is a schematic diagram of an electronic circuit controlling a lamp.

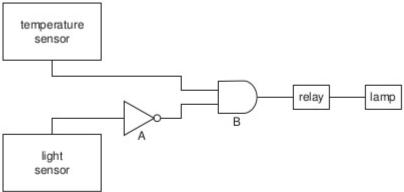


		Fig. 11	.1					
(a)	Stat	State the names of the logic gates A and B.						
	Α		В	[2]				
(b)			gh (logic 1) when it detects raised temperat c 1) when it detects raised light levels.	ure.				
	Stat	te the outputs of A and B when the su	rroundings are					
	(i)	dark and cold,	output of A =					
			output of B =	[1]				
	(ii)	dark and warm,	output of A =					
			output of B =	[1]				
	(iii)	bright and warm.	output of A =					
			output of B =	[1]				