MARKS

6

(5, 1)

5. Suppose that 70% of all cars on the road have incorrect tire pressures, 30% have defective exhaust systems, and 40% have poorly aimed headlights. Suppose also that 25% have all three faults, 35% have the faults with both tires and headlights, 26% with both tires and exhaust syatem, and 22% have none of the faults. Find the probability a car selected equiprobably ('at random') on the road has:

(a) a defective exhaust system and poorly aimed headlights;

(b) a defective exhaust system and poorly aimed headlights but **correct** tire pressures.

(a)

(a)

Probability

(b)

(b)

Probability