Q7. the mass value for each is given. therefore.

$m_1\{F\} = 0.3$ $\quad$ $m_2\{F\} = 0.40$

$m_1\{M\} = 0.15$ $\quad$ $m_2\{M\} = 0.10$

$m_1\{A\} = 0.03$ $\quad$ $m_2\{A\} = 0.02$

$m_1\{Animal\} = 0.42$ $\quad$ $m_2\{Animal\} = 0.45$

$m_1\{unknown\} = .10$ $\quad$ $m_2\{Unknown\} = 0.03$

Sensor 2

Sensor 1			F 0.40	M 0.10	A 0.02	Animal 0.045	Unknown 0.03
	F	0.3	0.12	ϕ	ϕ	ϕ	0.009
	M	0.15	ϕ	0.015	ϕ	ϕ	0.0045
	A	0.03	ϕ	ϕ	0.006	ϕ	0.0009
	Animal	0.42	ϕ	ϕ	ϕ	0.189	0.0126
	Unknown	0.10	0.04	0.01	0.002	0.045	0.003

The Conflict factor can be Calculated as shown below.

$$K = (0.3 \times 0.10) + (0.3 \times 0.02) + (0.3 \times 0.45) + (0.15 \times 0.4) + (0.15 \times 0.02) + (0.15 \times 0.45) + (0.03 \times 0.4) + (0.03 \times 0.10) + (0.03 \times 0.45) + (0.42 \times 0.4) + (0.42 \times 0.10) + (0.42 \times 0.02)$$

$$K = 0.5484$$