Question			Answer	Marks	Part Marks and Guidance	
1	(a)		0.2 and 0.8 correctly placed throughout	2	**B1** for 0.2 correctly placed once	
	(b)		0.36 oe	3	**M2** for 1 – (0.8 × 0.8) oe or for (0.8 × 0.2) + (0.2 × 0.8) + (0.2 × 0.2) oe soi Or **M1** for 0.8 × 0.2 or 0.2 × 0.8 or 0.2 × 0.2 oe soi	FT *their* tree for **M2** or **M1** May be on diagram

Question			Answer	Marks	Part Marks and Guidance	
2	(a		0.8, 0.2 correctly placed throughout	2	**M1** for 0.2 placed correctly once	
	(b)		0.32 oe	3	**M2** for 0.8×0.2 + 0.2×0.8 oe Or **M1** for 0.8×0.2 oe soi	0.8×*their*0.2 + *their*0.2×*their* 0.8 oe 0.8×*their*0.2 <u>or</u> *their*0.2×*their* 0.8 oe seen

Question			Answer	Marks	Part Marks and Guidance	
3	(a)		1/5 and 4/5 oe placed correctly throughout	3	**B1** for 1/5 oe placed correctly once **And B1** for 4/5 oe placed correctly once	
	(b)		$\dfrac{8}{25}$ or 0.32 or 32%	3	**M2** for $\dfrac{1}{5}\times\dfrac{4}{5}+\dfrac{4}{5}\times\dfrac{1}{5}$ oe Or **M1** for $\dfrac{1}{5}\times\dfrac{4}{5}$ oe Or **SC2** for answer of $\dfrac{9}{20}$ oe	FT M2 or M1 for *their* probabilities

4	(a)		0.2 placed correctly	1		
			0.3 placed correctly three times	1		
	(b)		0.29 oe	3	*In (a) and (b) -1 once for poor notation* **M2** for 0.5×0.4 + 0.3×0.3 oe Or **M1** for 0.5×0.4 <u>or</u> 0.3×0.3 oe	Eg 0.29/1 etc With no extra Seen separately
	(c)		0.33 oe nfww	3	**M2** for 0.5×0.3 + 0.3×0.4 + *their*0.2×*their*0.3 oe Or **M1** for 0.5×0.3 <u>or</u> 0.3×0.4 <u>or</u> *their*0.2×*their*0.3 oe	With no extra Seen separately

| 5 | (a | | 0.6, 0.4 oe correctly placed throughout | 2 | **M1** for 0.4 oe placed correctly once | |
| | (b) | | 0.48 oe | 3 | **M2** for (0.6 × 0.4) + (0.4 × 0.6) oe soi
 Or **M1** for 0.6 × 0.4 oe soi
 Or **SC1** for 1 – (0.4 × 0.4) oe soi | FT from *their* tree for M marks only |