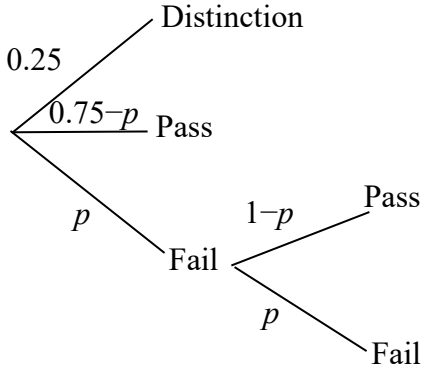
Question	Scheme		Marks	AOs
2(a)		$0.75-p$ **or** $1-p$ Correctly placed	B1	1.1b
		Both $0.75-p$ **and** $1-p$ correctly placed	B1	1.1b
			(2)	
(b)	$p^2 = 0.2025$		M1	1.1b
	$p = \sqrt{0.2025} = 0.45$		A1	1.1b
			(2)	
(c)	$0.75-p+p(1-p)$ $0.3+0.45\times0.55$ or $1-0.25-0.2025$		M1	3.1b
	0.5475 o.e.		A1ft	1.1b
			(2)	
(d)	(Marketing Employee, Accounting Employee): (Distinction, Pass), (Distinction, Fail), (Pass, Fail)		M1	3.1b
	Summing three products with at least two correct from: $0.25\times\text{'0.5475'}+0.25\times0.2025+\text{'0.5475'}\times0.2025$ or both correct products: $0.25\times(1-0.25)+\text{'0.5475'}\times0.2025$		M1	3.4
	$[0.25\times(1-0.25)+\text{'0.5475'}\times0.2025=]$ awrt 0.298		A1	1.1b
			(3)	
				(9 marks)

Notes:

(a)	**B1:** **B1:**	Either $0.75-p$ or $1-p$ correctly placed on tree diagram Both $0.75-p$ and $1-p$ correctly placed on tree diagram
(b)	**M1:** **A1:**	$p^2 = 0.2025$ $p = 0.45$
(c)	**M1:** **A1ft:**	Correct method for P(Pass) using their value of p (if p is used) 0.5475 (ft their p)
(d)	**M1:** **M1:** **A1:**	For using or writing the correct combinations as (D, P), (D, F), (P, F) o.e. Three summed products with two correct products from (D, P), (D, F), (P, F) or summing both correct products from (D, D'), (P, F) awrt 0.298