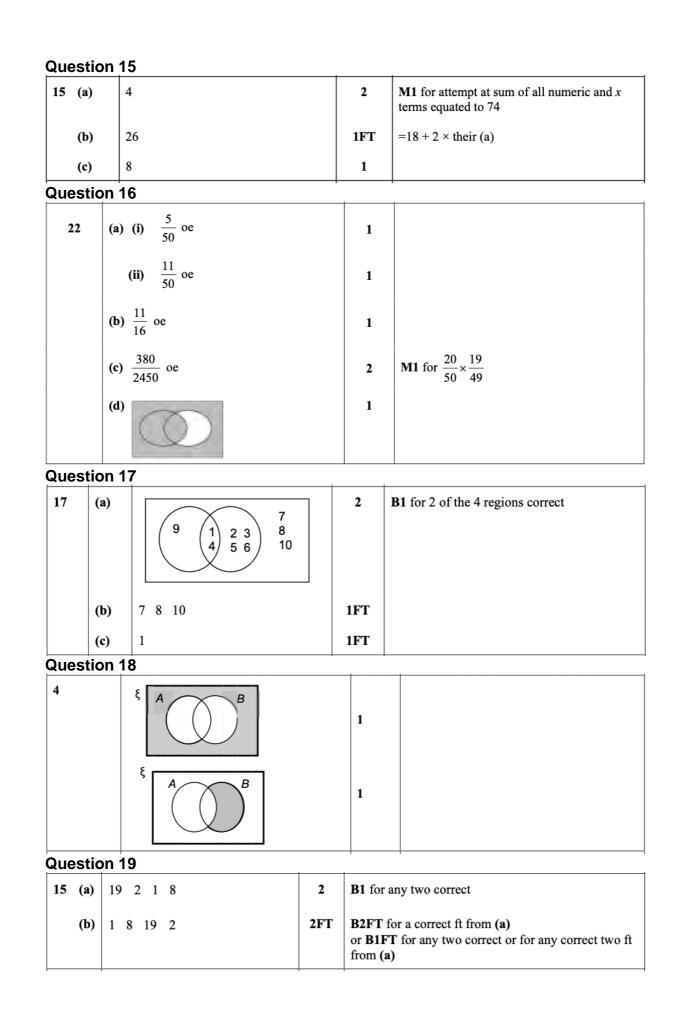
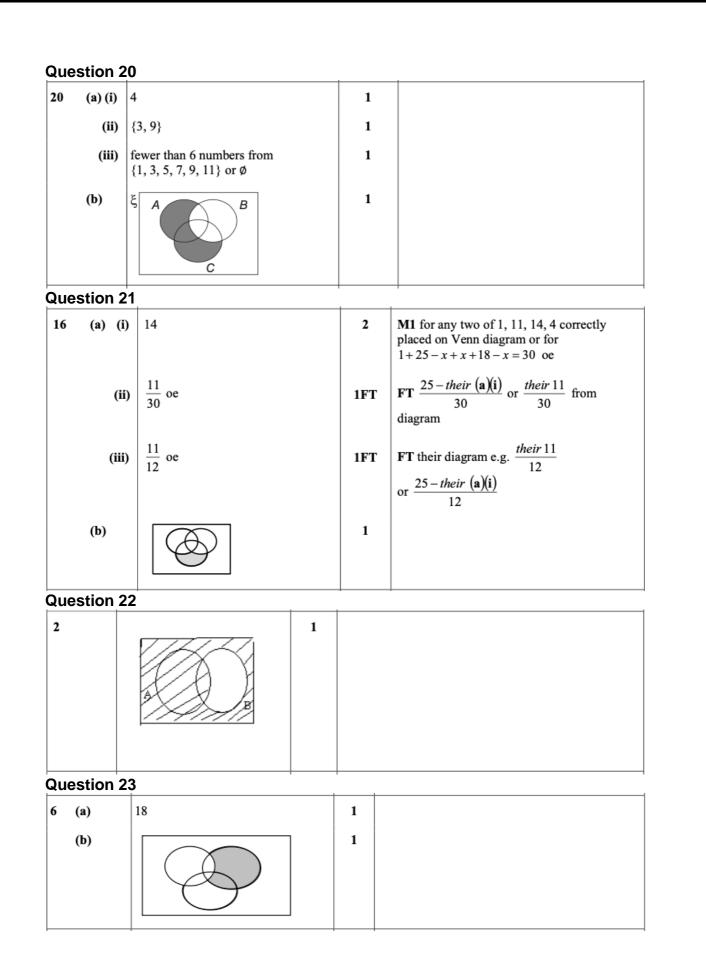
Sets – Paper 2 – Mark Scheme

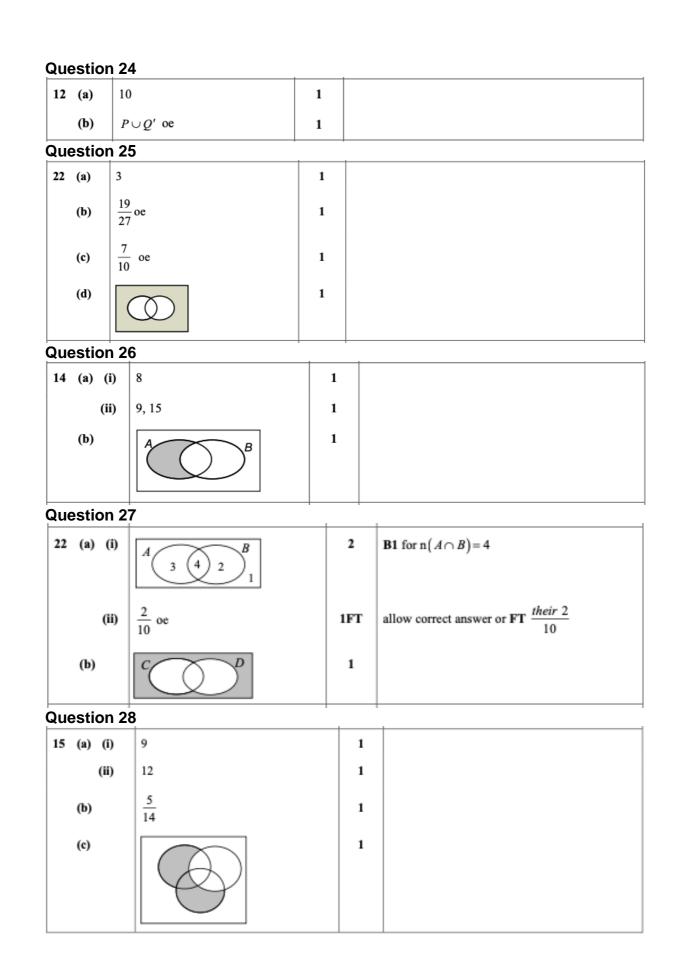
Question 1

Que	stion 1			
12	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3	M1 15 only in small c M1 10 only in the inte A1 all correct includin	rsection
Que	stion 2	1		
7	$(A \cup B \cup C)' (A \cup C)' \cap B$	1 1	or $A' \cap B' \cap C'$ or A' or $A' \cap C' \cap B$	$A' \cap (B \cup C)'$
ຊຸມຍ	stion 3			
7		2	B1 for one correct Ve	nn diagram
Que	stion 4	+	1	
22	(a) $D \xrightarrow{14}_{L} E \xrightarrow{12}_{L} E$	4	B1 0 and 14 in correct B1 2 in correct place B1 3 in correct place B1 12 in correct place	
	(b) 11	1ft	B1 ft 8 + their 3	
	(c) 23	1ft	B1 ft 21 + their 2	
Que	stion 5			
2	10	2	M1 33 – 25 or 38 – 30	M1 $30 - 15 - 5$ oe with no further working
Que	stion 6			
4		1, 1		
Que	stion 7		1	
11	13	2	M1 21 + 15 - 23 or M1 15 - $x + x + 21$	-x + 1 = 24 oe
Que	stion 8			
2	correct regions shaded	1, 1		

15	(a) 4	1	
	(b) (i) $\frac{12}{36}$ or 0.333	1	
	(ii) $\frac{11}{36}$, 0.306 or 0.3055 to	1	
	0.3056	1	
	(c) $\frac{8}{15}$ or $0.533(3)$		
Ques	stion 10		1
3 (a)		1	
(b)) 14	1	
Ques	stion 11	!	
17	(ii) 7	1	
	(ii) 4	1	
	(b) $\frac{7}{13}$ oe	1ft	Ft their Venn diagram or their (a)(i)/13
Ques	stion 12		1
9	° 🔘 🙆		B1 for one correct
Ques	stion 13		
12 ((a) $\frac{3}{11}$	1	
((b)	1	
Ques	stion 14		
1	B		1
			1







Question 29

20	(a)	$\begin{array}{c} \mathcal{C} \\ A \\ 9.3 \\ \pi \\ 2\sqrt{8} \end{array}$	2	B1 for 3 elements in the correct place
	(b)	8 C D	1	
		8 E F G	1	

Question 30

23(a)	5	3	M2 for $20 - x + x + 8 - x = 23$ or better or B1 for identifying the correct region $A \cup B$	
23(b)	$\frac{7}{30}$ oe	2	B1 for $\frac{7}{c}$ or $\frac{k}{30}$	