SET THEORY-2			
1	Three sets A , B and K are such that $A \subset K$, $B \subset K$ and $A \cap B = \emptyset$. Draw a Venn diagram to show this information.		
	[2]		
2			
2	(a) Shade the region $A \cap B$. (b) Shade the region $(A \cup B)'$.		
	(c) Shade the complement of set B .		

3	A and B are sets. Write the following sets in their simplest form.	
	(a) $A \cap A'$.	
	Answer(a)	[1]
	Answer(b)	[1]
	Answer(c)	[1]
4	E Company of the comp	
	$ \begin{array}{c c} P & Q \\ \hline 3 & 5 & 10 \end{array} $	
	The Year discuss shows the worker of alcorate in each set	
	The Venn diagram shows the number of elements in each set.	
	(a) Find $n(P' \cap Q)$.	
U,	Answer(a)	[1]
	(b) Complete the statement $n(\dots) = 17$.	[1]

5

(a) $n(\mathscr{E}) = 10$, n(A) = 7, n(B) = 6, $n(A \cup B)' = 1$.

 $A \longrightarrow B$

(i) Complete the Venn diagram by writing the number of elements in each subset.

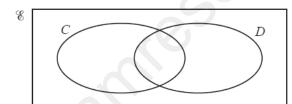
[2]

(ii) An element of \mathscr{E} is chosen at random.

Find the probability that this element is an element of $A' \cap B$.

.....[1]

(b) On the Venn diagram below, shade the region $C' \cap D'$.



[1]

6 (a) $Q = \{1, 2, 3, 4, 5, 6\}$ Write down a set P where $P \subset Q$. $P = \dots [1]$ (b) Shade these regions in the Venn diagrams. $M \cup N'$ $(A \cup B) \cap C'$ $A \cap B$ C [2]