

6. (E)

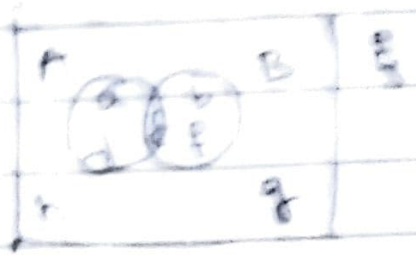
i)  $A \cup B \rightarrow a, b, c, d, e, f$

ii)  $A' \cap B \rightarrow b, f$

iii)  $A - B \rightarrow a, d$

iv)  $B - A \rightarrow b, f$

v)  $(A \cup B)' \rightarrow h, g$



i)  $A' = 2, 5, 7, 8, 9, 10$

ii)  $B' = 3, 4, 6, 7, 8, 9, 10$



iii)  $A' \cap B' = 2, 3, 4, 5, 6, 7, 8, 9, 10$

iv)  $A \cap B' = 2, 3, 4, 5, 6, 7, 8, 9, 10$

v)  $A' \cup B' = (A \cap B) ? = \text{Yes}$

3) i)  $\{a, b, c, d, g, h, i, j\}$

ii)  $\{e, f, h, j\}$

iii)  $\{a, b, c, i\}$

→ Yes

4) i)  $\emptyset$

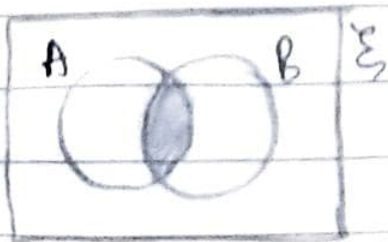
ii)  $\{2, 5, 6, 7, 9\}$

iii)  $\{2, 3, 4, 6, 7, 8, 9, 10\}$

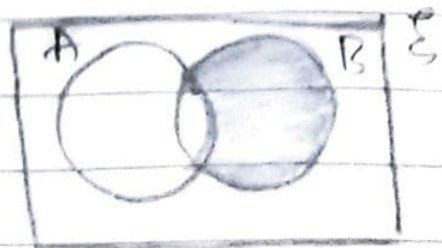
iv)  $\{1, 5\}$

v)  $\{1, 5, 6, 7, 9\}$

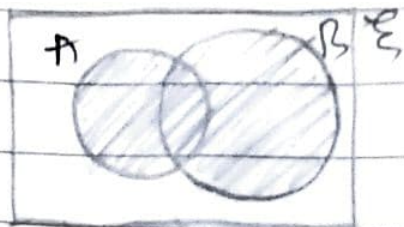
5) i)

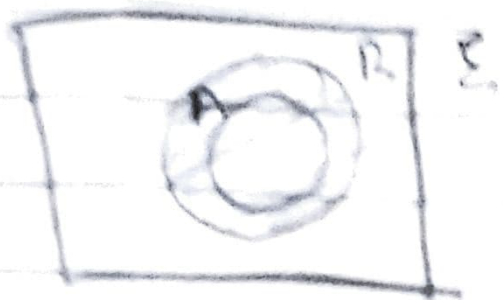


ii)

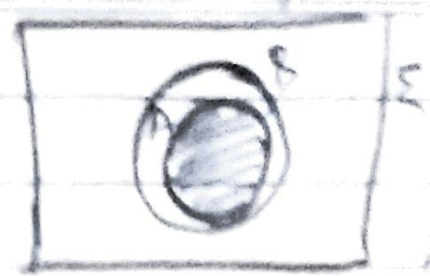
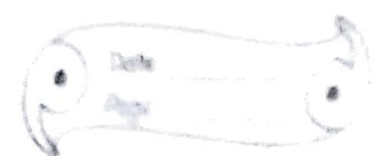


iii)





ii)



i)  $(A \cup B)'$

ii)  $B - A$  or  $A' \cap B$

iii)  $(B - A)'$

10. i)  $\{A, d, g, e\}$

ii)  $\{d, e, g\}$

iii)  $\{n, B, c, d\}$

ii)  $A - B$

ii)  $(A \cup B) - (A \cap B)$

iii)  $(A \cap B)'$

iv)  $B'$

v)  $(A \cup B)'$