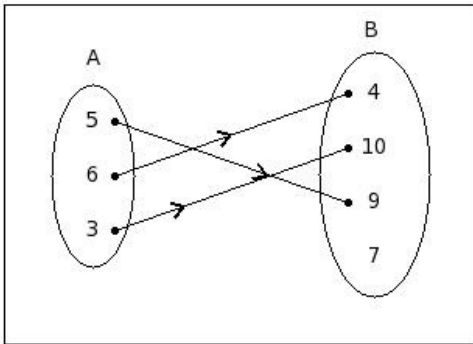




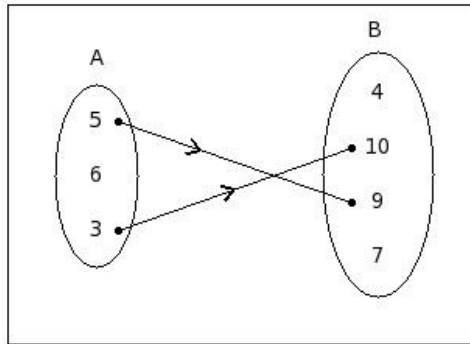
1. Which of the following relations is a function given ,
 $A = \{4,10,5,7,1\}$ and $B = \{1,5,10,7\}$?

- (i) $\{(4,7),(10,5),(7,1),(1,5),(11,4)\}$ (ii) $\{(4,7),(10,5),(5,10),(7,1),(1,5)\}$ (iii) $\{(4,7),(10,5),(7,1),(1,5)\}$
- (iv) $\{(4,7),(5,10),(7,1),(1,5)\}$ (v) $\{\}$

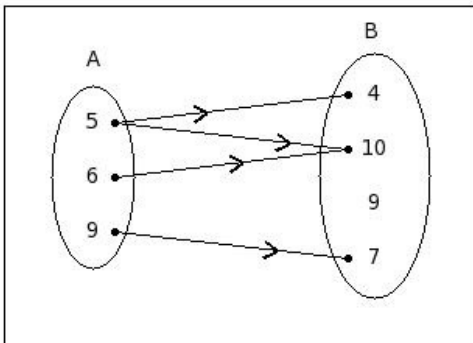
2. Which of the following relations $R:A \rightarrow B$ represent a function,
given $A = \{5,6,3\}$ and $B = \{4,10,9,7\}$?



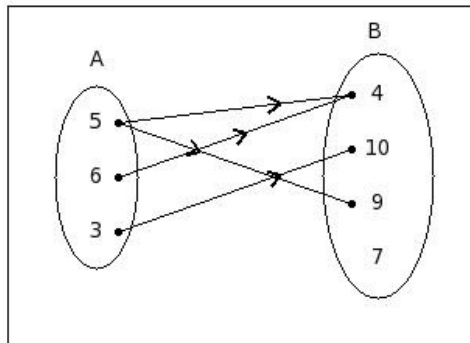
I



II



III



IV

- (i) I (ii) II (iii) IV (iv) III

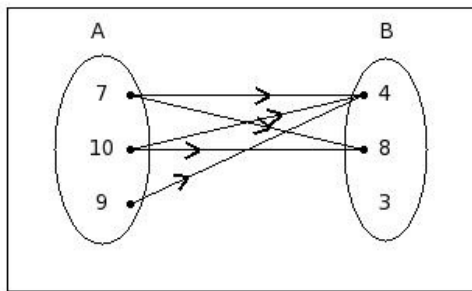
3. Which of the following does not represent a function $f:A \rightarrow B$,
where $A = \{9,2,5,8\}$ and $B = \{7,1,6,3,4,10\}$?

- (i) $\{(8,1),(9,1),(8,3),(8,6)\}$ (ii) $\{(8,4),(9,6),(5,6),(2,6)\}$ (iii) $\{(9,3),(5,10),(8,4),(2,7)\}$
- (iv) $\{(9,6),(2,4),(5,4),(8,1)\}$ (v) $\{(9,7),(2,7),(5,4),(8,7)\}$

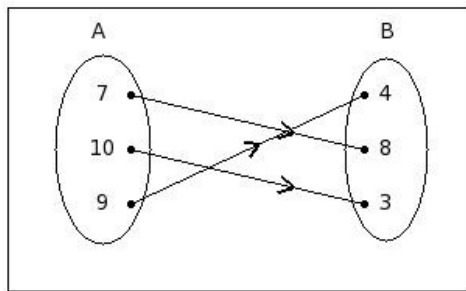
4. Which of the following does not represent a function $f:A \rightarrow B$,
where $A = \{4,10,6,5,8,9\}$ and $B = \{3,2,7,1\}$?

- (i) $\{(5,2),(8,2),(10,3),(4,1),(6,3),(9,7)\}$ (ii) $\{(8,7),(9,1),(5,7),(6,3),(4,3),(10,1)\}$
- (iii) $\{(10,1),(5,3),(6,7),(9,2),(8,2),(4,3)\}$ (iv) $\{(5,1),(10,1),(6,7),(4,1),(9,7)\}$
- (v) $\{(4,7),(6,7),(9,3),(10,1),(5,3),(8,1)\}$

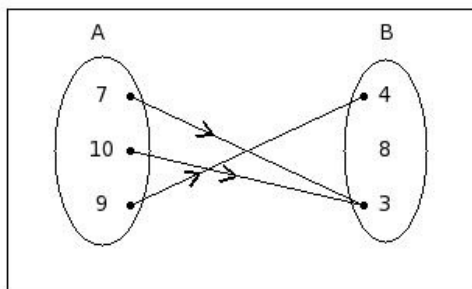
5. Which of the following does not represent a function $f:A \rightarrow B$, where $A = \{7,10,9\}$ and $B = \{4,8,3\}$?



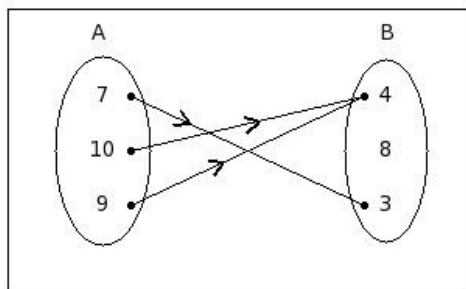
I



II



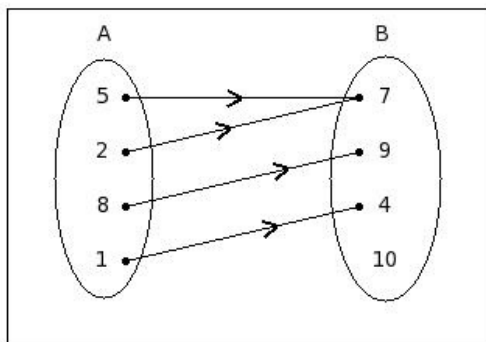
III



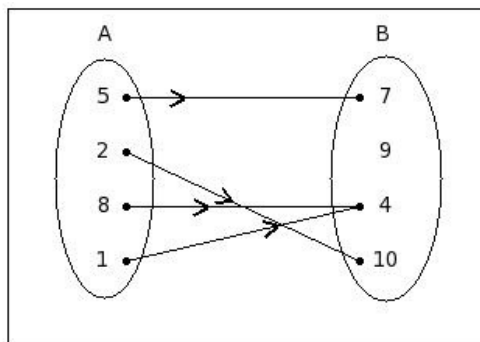
IV

- (i) III (ii) IV (iii) II (iv) I

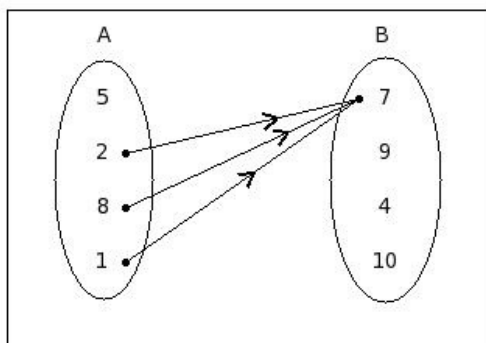
6. Which of the following does not represent a function $f:A \rightarrow B$, where $A = \{5,2,8,1\}$ and $B = \{7,9,4,10\}$?



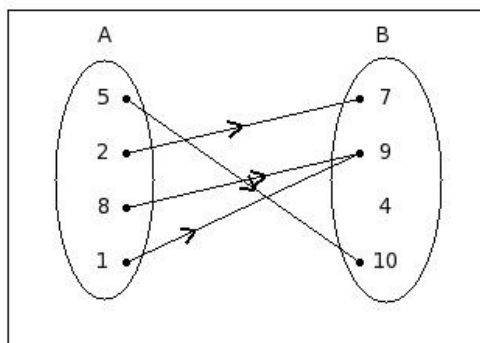
I



II



III



IV

- (i) II (ii) I (iii) IV (iv) III

7. Which of the following relations is a function $f:A \rightarrow B$, where $A = \{b,c,o,k,f\}$ and $B = \{c,l,e,o,f,b\}$?

- (i) $\{(b,c),(f,c),(k,l),(o,o),(c,l),(c,f)\}$ (ii) $\{(b,c),(f,c),(o,o),(c,l)\}$ (iii) $\{(b,c),(f,c),(k,l),(o,o),(c,l)\}$
 (iv) $\{(b,c),(k,l),(o,o),(c,l),(c,f)\}$ (v) $\{\}$

8. Which of the following relations does not represent a function $f:A \rightarrow B$, where $A = \{n,o,f,c,b,l\}$ and $B = \{j,d,k,g\}$?

- (i) $\{(n,j),(b,d),(l,d),(f,g),(o,g),(c,k)\}$ (ii) $\{(f,k),(n,j),(l,d),(c,k),(o,j),(b,g)\}$ (iii) $\{(n,j),(o,d),(f,g),(b,k),(c,g),(l,k)\}$
(iv) $\{(c,g),(o,k),(f,g),(l,k),(f,k),(c,d)\}$ (v) $\{(n,k),(l,k),(b,d),(f,k),(c,j),(o,k)\}$

Assignment Key

1) (ii)

2) (i)

3) (i)

4) (iv)

5) (iv)

6) (iv)

7) (iii)

8) (iv)