

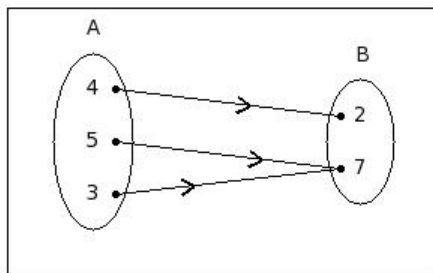
## EduSahara™ Learning Center Assignment

**Grade** : Class VIII, ICSE  
**Chapter** : Relations and Mapping  
**Name** : Functions  
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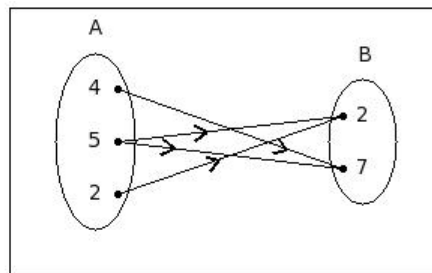
1. Which of the following relations is a function given ,  
 1.  $A = \{1, 3, 10, 9, 6\}$  and  $B = \{2, 9, 1, 5, 6, 7\}$  ?

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

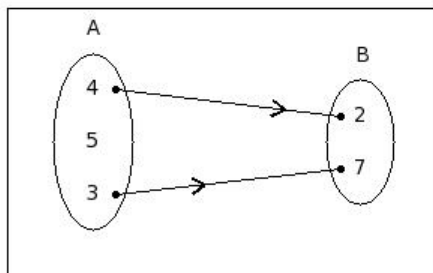
2. Which of the following relations  $R: A \rightarrow B$  represent a function,  
 given  $A = \{4, 5, 3\}$  and  $B = \{2, 7\}$  ?



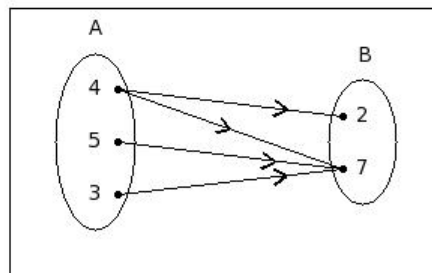
I



II



III



IV

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

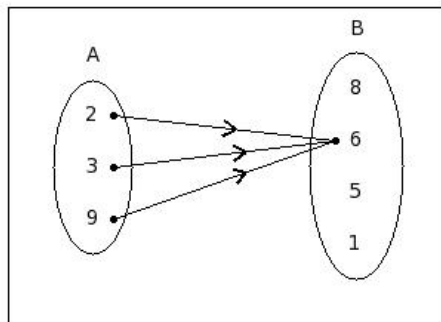
3. Which of the following does not represent a function  $f: A \rightarrow B$  ,  
 where  $A = \{4, 8, 1, 5, 10, 2\}$  and  $B = \{6, 3, 7, 9\}$  ?

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

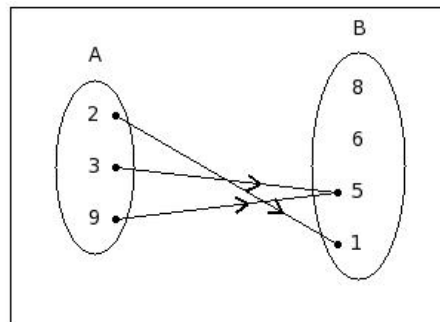
4. Which of the following does not represent a function  $f: A \rightarrow B$ , where  $A = \{5,4,10,6\}$  and  $B = \{8,7,1,9\}$  ?

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

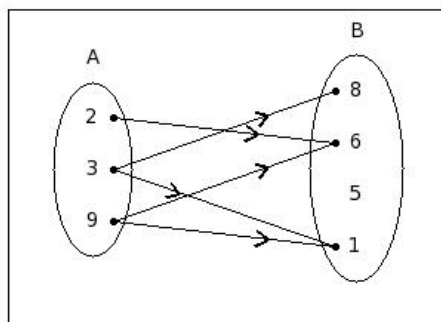
5. Which of the following does not represent a function  $f: A \rightarrow B$ , where  $A = \{2,3,9\}$  and  $B = \{8,6,5,1\}$  ?



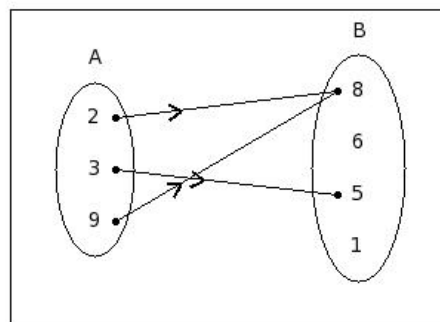
I



II



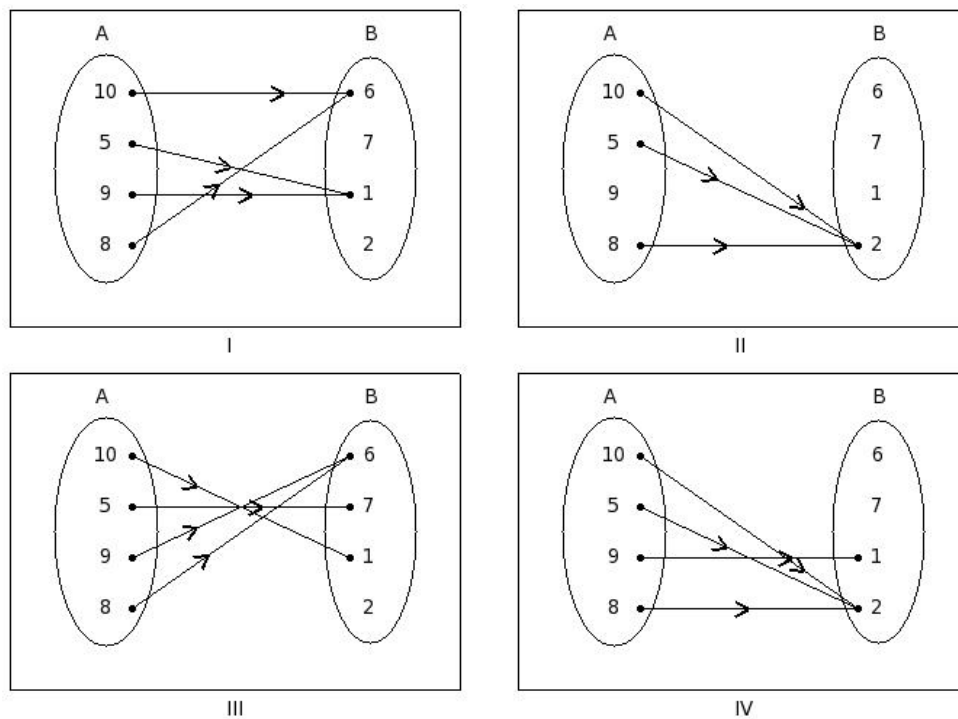
III



IV

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

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



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

7. Which of the following relations is a function  $f: A \rightarrow B$ , where  $A = \{a, n, c, d, i\}$  and  $B = \{m, h, i, d, j, b\}$  ?

- (i)  $\{\}$   
 (ii)  $\{(a, j), (c, h), (d, h), (i, b), (n, m), (h, c)\}$   
 (iii)  $\{(a, j), (c, h), (i, b), (n, m)\}$   
 (iv)  $\{(a, j), (c, h), (d, h), (i, b), (n, m)\}$   
 (v)  $\{(a, j), (d, h), (i, b), (n, m), (h, c)\}$

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

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

## Assignment Key

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- 1) (i)
- 2) (iv)
- 3) (v)
- 4) (iv)
- 5) (iv)
- 6) (ii)
- 7) (iv)
- 8) (iv)