Name: Functions

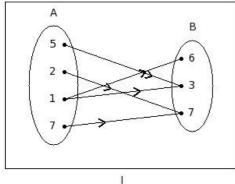
Chapter: Relations and Mapping

Grade: ICSE Grade VIII

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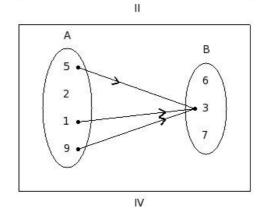
- Which of the following relations is a function given,
- $A = \{5,6,4,8,2,7\}$ and $B = \{7,8,6,10,9\}$?
 - (i) $\{(5,7),(6,9),(4,6),(8,7),(2,6),(7,10),(6,4)\}$ (ii) $\{\}$ (iii) $\{(5,7),(6,9),(4,6),(2,6),(7,10)\}$
 - (iv) $\{(5,7),(6,9),(8,7),(2,6),(7,10),(6,4)\}$ (v) $\{(5,7),(6,9),(4,6),(8,7),(2,6),(7,10)\}$
- Which of the following relations $R: A \rightarrow B$ represent a function,

given $A = \{5,2,1,9\}$ and $B = \{6,3,7\}$?



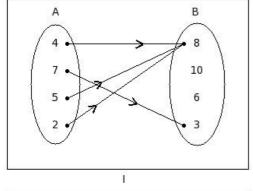
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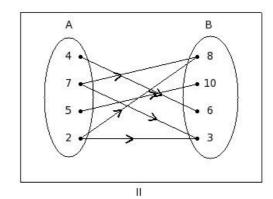
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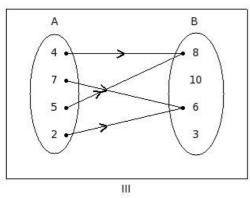


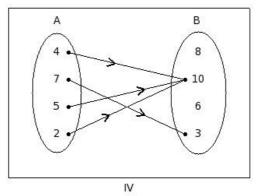
- (i) IV (ii) III (iii) II (iv) I
- Which of the following does not represent a function $f: A \rightarrow B$,
- where $A = \{6,5,8,4,1,3\}$ and $B = \{10,9,7,2\}$?
 - (i) $\{(6,2),(1,7),(8,7),(4,7),(3,7),(5,9)\}$ (ii) $\{(4,2),(3,7),(6,7),(5,7),(1,7),(8,2)\}$
 - (iii) $\{(6,9),(8,7),(1,7),(5,2),(4,9),(3,2)\}\$ (iv) $\{(6,7),(4,10),(8,2),(1,2),(8,9),(1,10)\}\$
 - (v) $\{(5,7),(4,10),(3,7),(1,9),(6,10),(8,9)\}$
- Which of the following does not represent a function $f: A \rightarrow B$,
- where $A = \{8,10,5,3\}$ and $B = \{1,2,6,4,9,7\}$?
 - (i) $\{(8,1),(3,7),(5,1),(10,7)\}$ (ii) $\{(5,2),(3,9),(10,2),(8,9)\}$ (iii) $\{(8,7),(5,2),(3,2),(10,2)\}$
 - (iv) $\{(3,7),(8,1),(10,4),(5,1)\}$ (v) $\{(3,2),(8,4),(10,9)\}$

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

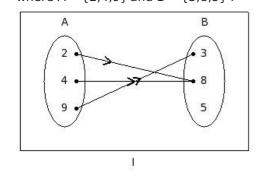


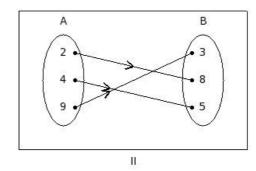


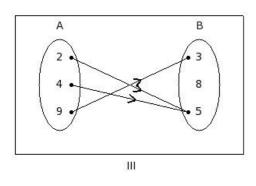


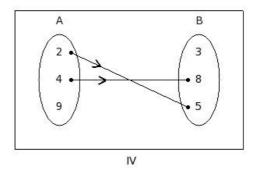


- (i) III (ii) I (iii) II (iv) IV
- 6. Which of the following does not represent a function $f: A \rightarrow B$, where $A = \{2,4,9\}$ and $B = \{3,8,5\}$?









- (i) IV (ii) I (iii) III (iv) II
- 7. Which of the following relations is a function $f: A \rightarrow B$, where $A = \{d,i,m,o,l\}$ and $B = \{d,n,o,j,i\}$?
 - (i) $\{(I,i),(i,i),(o,n),(d,j),(m,d)\}\$ (ii) $\{(I,i),(i,i),(d,j),(m,d)\}\$ (iii) $\{\}$

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

 (i) $\{(m,a),(i,a),(e,l),(h,l)\}$ (ii) $\{(e,l),(m,k),(h,a),(i,d)\}$ (iii) $\{(h,a),(i,k),(m,k),(e,a)\}$ (iv) $\{(e,g),(h,l),(e,l),(h,k)\}$
 - (v) {(i,g),(m,d),(h,g),(e,g)}

Assignment Key						
1) (v)	2) (iii)	3) (iv)	4) (v)	5) (iii)	6) (i)	
7) (i)	8) (iv)					

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