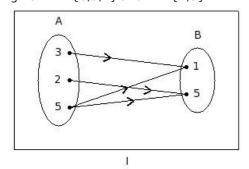
Name: Functions

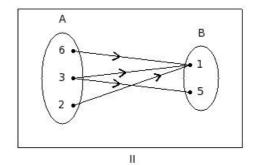
Chapter: Relations and Mapping

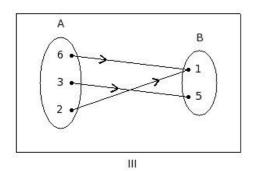
Grade: ICSE Grade VIII

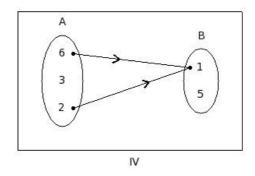
License: Non Commercial Use

- Which of the following relations is a function given,
- $A = \{3,5,6,2\}$ and $B = \{2,1,4,7,9\}$?
 - $(i) \ \{(3,1),(5,1),(2,2)\} \ (ii) \ \{(3,1),(5,1),(2,2),(8,5)\} \ (iii) \ \{(3,1),(5,1),(6,7),(2,2),(1,5)\}$
 - (iv) $\{(3,1),(5,1),(6,7),(2,2)\}$ (v) $\{(3,1),(6,7),(2,2),(1,5)\}$
- Which of the following relations $R: A \rightarrow B$ represent a function, given $A = \{6,3,2\}$ and $B = \{1,5\}$?



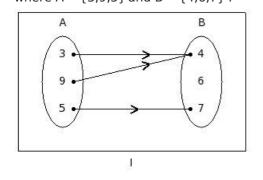


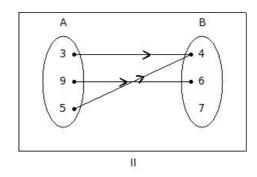


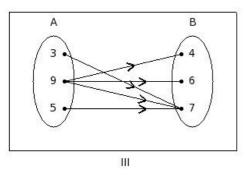


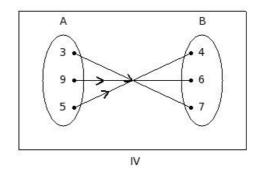
- (i) III (ii) IV (iii) I (iv) II
- Which of the following does not represent a function $f: A \rightarrow B$,
 - where $A = \{2,1,4,7,3,5\}$ and $B = \{6,10,9,8\}$?
 - (i) $\{(4,8),(3,8),(1,6),(7,8),(5,8),(2,10)\}$ (ii) $\{(5,8),(3,6),(2,8),(4,8),(7,9),(1,6)\}$
 - (iii) $\{(3,10),(7,6),(5,10),(2,8),(1,6),(4,10)\}$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

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



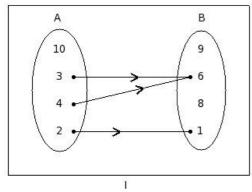


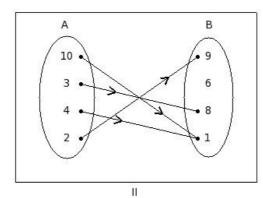


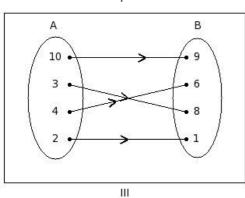


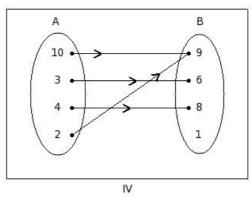
(i) IV (ii) III (iii) II (iv) I

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









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

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

 $(i) \ \{(a,f),(i,k),(d,f),(k,a),(c,o)\} \ (ii) \ \{(a,f),(o,c),(i,k),(d,f),(k,a)\} \ (iii) \ \{(a,f),(o,c),(i,k),(d,f),(k,a),(c,o)\}$

(iv) $\{(a,f),(o,c),(d,f),(k,a)\}$ (v) $\{\}$

- Which of the following relations does not represent a function $f:A \rightarrow B$, where $A = \{l,e,h,d,o,g\}$ and $B = \{i,c,b,a,n,f\}$?
 - $(i) \ \{(g,a),(h,b),(e,i),(l,b),(d,i),(o,n)\} \ \ (ii) \ \ \{(l,a),(e,b),(g,f),(o,f),(h,c),(d,f)\} \ \ \ (iii) \ \ \{(e,c),(h,f),(o,c),(d,i),(h,b),(g,f)\}$
 - $(iv) \ \{(g,n),(h,f),(l,a),(o,i),(d,f),(e,a)\} \ (v) \ \{(h,f),(l,f),(o,c),(e,a),(d,f),(g,c)\}$

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

Copyright © Small Systems Computing Pvt. Ltd.