EduSahara™ Assignment

Name : Subsets

Chapter : Sets

Grade : ICSE Grade VIII

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1. Which of the following is a subset of A = {3,2,5}?

   (i) {4,3,5} (ii) {0,4,2} (iii) {0,2} (iv) {0,4,1} (v) {2}

2. Which of the following is a subset of A = {0,7,3,8,2,1,9}?

   (i) {4,0} (ii) {6,4,10} (iii) {0} (iv) {7,4,3,9,1,2,0} (v) {10,4,0}

3. Which of the following is a subset of A = {13,7,5,9,0,8,3}?

   (i) {10,12,4} (ii) {7,9} (iii) {12,7,9,10} (iv) {13,3,4,8,5,0,7} (v) {10,9,7}

4. Which of the following is 'subset' symbol?

   (i) $\in$ (ii) $\cap$ (iii) $\supset$ (iv) $\subset$ (v) $\not\supset$

5. Which of the following is 'subset or equal to' symbol?

   (i) $\leftrightarrow$ (ii) $\in$ (iii) $\not\supset$ (iv) $\notin$ (v) $\subseteq$

6. Which of the following is 'not a subset' symbol?

   (i) $\not\subset$ (ii) $\notin$ (iii) $\cup$ (iv) $\in$ (v) $\leftrightarrow$

7. Which of the following is 'superset' symbol?

   (i) $\supset$ (ii) $\subset$ (iii) $\supseteq$ (iv) $\not\subset$ (v) $\notin$

8. Which of the following is 'superset or equal to' symbol?

   (i) $\supseteq$ (ii) $\cup$ (iii) $\not\subset$ (iv) $\subseteq$ (v) $\subset$

9. Which of the following is 'not a superset' symbol?

   (i) $\not\subset$ (ii) $\leftrightarrow$ (iii) $\subseteq$ (iv) $\not\supset$ (v) $\subset$

10. Find the number of subsets of A = {0,2,5,3,1}

    (i) 32 (ii) 31 (iii) 33 (iv) 30 (v) 35

11. Which of the following is a proper subset of A = {0,1,4}?

    (i) {0,1,4} (ii) {2,0} (iii) {0,5} (iv) {0,1} (v) {3,4,1}

12. Find the number of proper subsets of A = {3,1,4,2,5,0}

    (i) 62 (ii) 61 (iii) 64 (iv) 66 (v) 63

13. Which of the following is not a subset of A = {3,6,9,8,0,2,4}?

    (i) {9,4,6,2,0,8} (ii) {3,8,5,6,9,0} (iii) {3,9,4,0,8} (iv) {6,3,8,4,0,2} (v) {3,6,9,8,0,2,4}

14. Which of the following is superset of A = {3,1,2,4}?

    (i) {1,2,3} (ii) {4,6,3,2} (iii) {3,4} (iv) {0,4,3,2,1} (v) {8,3,1,2}

15. Which of the following is not a superset of A = {8,0,2,3,6}?

(i) {6,2,8,3,0,1} (ii) {3,2,8,6,0} (iii) {8,9,0,6,2,3} (iv) {6,8,2,4,0,3} (v) {0,6,2,3,4}

16. If A = {4,2,9,5,10}, which of the following are true?

a) $5 \in A$
b) $A \supset 5$
c) $\{9,10\} \subset A$
d) $5 \subset A$
e) $5 \notin A$

(i) {e,b,a} (ii) {b,a} (iii) {d,c} (iv) {a,c} (v) {d,c,a}

17. If A and B are disjoint sets, which of the following are true?

a) $A \cap B = \varnothing$
b) $B \subset A$
c) $A \cup B = A$
d) $A \subset B$
e) $A \cap B = A$

(i) {a} (ii) {b,a} (iii) {c,a} (iv) {d,e,a}

18. If A = {q,k,b,j,u}, which of the following are true?

a) $A \supset b$
b) $\{q,j\} \subset A$
c) $b \notin A$
d) $b \subset A$
e) $b \in A$

(i) {d,a,b} (ii) {c,e,b} (iii) {a,b} (iv) {b,e} (v) {c,e}

19. Given sets A, B and C, where $A \subset B \subset C$, which of the following are true?

a) $C \subset A$
b) $C \supset B$
c) $B \supset A$
d) $B \subset A$
e) $\varnothing \subset B$

(i) {a,b,c} (ii) {b,c,e} (iii) {a,b} (iv) {a,d,e} (v) {d,c}

20. If $A \subset B$, then which of the following are true?

a) $A = B$
b) $A' = B$
c) $A' \subset B$
d) $B \subset A$
e) $B \supset A$

(i) {a,e} (ii) {e} (iii) {c,d,e} (iv) {b,e}

21. If $A \subset B$, then which of the following are true?

a) $A \cap B = B$
b) $A \cup B = \emptyset$
c) $A \cap B = A$
d) $A \cup B = B$
e) $A \cup B = A$

(i) {b,d,c} (ii) {e,a,c} (iii) {a,c} (iv) {b,d} (v) {c,d}

22. If $A \subset B$, then which of the following are true?

a) $A - B = \emptyset$
b) $B - A = A$
c) $A - B = B$
d) $B - A = B$
e) $A \cup B = \emptyset$

(i) {d,e,a} (ii) {b,a} (iii) {c,a} (iv) {a}

23. Given 5 sets $A = \{1,10,2,6\}$, $B = \{1,6,2,10\}$, $C = \{8,5,1,10,6,4,9\}$, $D = \{11,12,17,18,16,19,15\}$ and $E = \{10,9,7,6,4,1,8,2,5,3\}$, which of the following are true?

a) $C \leftrightarrow D$
b) $A = B$
c) $A \leftrightarrow C$
d) $C = D$
e) $A \subset C$

(i) {a,b} (ii) {d,b,a} (iii) {d,b} (iv) {e,c,a} (v) {c,a}

Assignment Key

1) (v)	2) (iii)	3) (ii)	4) (iv)	5) (v)	6) (i)
7) (i)	8) (i)	9) (iv)	10) (i)	11) (iv)	12) (v)
13) (ii)	14) (iv)	15) (v)	16) (iv)	17) (i)	18) (iv)
19) (ii)	20) (ii)	21) (v)	22) (iv)	23) (i)	

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