



1. Which of the following is 'belongs to' symbol?

- (i) \leftrightarrow (ii) \notin (iii) \cup (iv) \in (v) \notin

2. Which of the following is a null set?

- (i) \emptyset (ii) $\{0\}$ (iii) $\{\emptyset\}$ (iv) $\{o\}$ (v) $\{\text{empty}\}$

3. Which of the following elements does not belong to the set $\{7,1,6,9,4\}$?

- (i) 4 (ii) 5 (iii) 1 (iv) 6 (v) 7

4. If $\mu = \{-2,-6,-9,3,-3,-1,-5,2,1,-4,0,5,7\}$, $A = \{-2,-6,-9,3,-3,-1\}$ and $B = \{3,-5,-2\}$, find $n(A \cap B)$

- (i) 5 (ii) 3 (iii) 2 (iv) 0 (v) 1

5. If $A = \{0,1,10,5\}$ and $B = \{7,9,10,0\}$, then $A \cup B =$

- (i) $\{9,1,10,7,5\}$ (ii) $\{5,10,9,1,11,0,7\}$ (iii) $\{5,10,1,7,0\}$ (iv) $\{5,1,9,14,7,10\}$ (v) $\{9,10,0,5,7,1\}$

6. Which of the following is a null set?

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

7. If $A = \{11,6,12,8,10\}$ and $B = \{9,5,6,4,14\}$, then $A \cup B =$

- (i) $\{8,6,12,14,5,10,4,11\}$ (ii) $\{8,9,19,10,14,11,5,6,12,4\}$ (iii) $\{14,12,5,11,10,8,9,6,4\}$
(iv) $\{6,8,12,9,11,14,4,5\}$ (v) $\{5,4,12,6,11,9,19,10,8\}$

8. If $A = \{8,9,3\}$ and $B = \{9,3,10\}$, then $A \cap B =$

- (i) $\{10,9,3\}$ (ii) $\{9,3\}$ (iii) $\{3,8,9\}$ (iv) $\{8,3,10,9\}$ (v) $\{9,13,3\}$

9. If $\mu = \{0,-7,6,-5,2,9,-9,-2,-3,7,4,3,8,5\}$, $A = \{0,-7,6,-5,2\}$ and $B = \{9,-9,-2,-7,-3,7\}$, find $n(B)$

- (i) 4 (ii) 6 (iii) 5 (iv) 8 (v) 7

10. Which of the following symbols represent the set of Whole numbers ?

- (i) Q' (ii) R (iii) W (iv) Z (v) Q

11. Which of the following is 'null set' symbol?

- (i) \neq (ii) n (iii) \notin (iv) \emptyset (v) \subset

12. Which of the following symbols represent the set of Integers ?

- (i) Q' (ii) Z (iii) N (iv) Q (v) R

13. If $A = \{8,6,9,5,4\}$ and $B = \{4,9,6,8,7\}$, then $B \cap A =$

- (i) $\{6,4,9,5,8\}$ (ii) $\{4,7,6,8,9\}$ (iii) $\{6,4,8,13,9\}$ (iv) $\{4,6,9,8\}$ (v) $\{6,7,4,8,5,9\}$

14. What is the cardinality of an empty set?

- (i) 5 (ii) 8 (iii) 0 (iv) 3 (v) 7

15. Which of the following are null sets?

- a) {}
- b) {7,4,5}
- c) { \emptyset }
- d) \emptyset
- e) {empty}

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

16. If $A = \{3,9,1,5\}$ and $B = \{8,9,1,10\}$, then $B \cup A =$

- (i) {5,9,8,3,1} (ii) {5,9,15,8,3,1,10} (iii) {9,5,8,3,10} (iv) {10,3,5,1,9,8} (v) {10,8,1,9,11,5}

17. If $A = \{2,3,1\}$ and $B = \{0,10,6\}$, then $B \cap A =$

- (i) {2,10} (ii) {12} (iii) {} (iv) {1} (v) {6}

18. If $A = \{11,8,14,6,4,9,13\}$ and $B = \{10,14,11,15,7,0,8\}$, then $A \cap B =$

- (i) {11,14,15,8,0} (ii) {14,7,8,11} (iii) {14,8,11,20} (iv) {14,11,8} (v) {14,8,9,11}

19. If $A = \{4,3,0,1,10\}$ and $B = \{11,3,15,1,14\}$, then $B \cup A =$

- (i) {0,3,10,15,1,14,4} (ii) {4,3,11,17,0,14,1,10,15} (iii) {10,3,14,0,4,11,15} (iv) {3,15,1,0,14,4,11,10}
(v) {10,14,4,17,11,15,1,0}

20. If $A = \{4,3,2,-8,-3,-2\}$ and $\mu = \{4,3,2,-8,-3,-2,-1,-5,1,-4\}$, find $A \cap \mu$

- (i) {2,0,-8,4,-3,3,-2,5} (ii) {4,2,-8,-2,3} (iii) {2,4,-4,0,-8,-2} (iv) {3,2,4,-3,-2,-8} (v) {2,-8,3,4,-3,1}

21. Which of the following is 'intersection' symbol?

- (i) \neq (ii) \subseteq (iii) \notin (iv) \cap (v) \supset

22. If $A = \{1,7,13,11,9,10,15\}$ and $B = \{7,13,3,9,0,8,14\}$, then $B \cap A =$

- (i) {9,0,13,7} (ii) {7,13,9} (iii) {9,16,7,13} (iv) {9,10,7,13} (v) {0,9,7,13,1}

23. If $A = \{3,4,5\}$ and $B = \{5,3,1\}$, then $A \cup B =$

- (i) {3,5,4,1} (ii) {4,5,3,6,1} (iii) {3,4,1} (iv) {1,8,3,5} (v) {3,5,4}

24. Find the cardinality of $A = \{-3,5,6,-7,-2,3\}$

- (i) 5 (ii) 6 (iii) 7 (iv) 8 (v) 4

25. If $A = \{2,7,-5,9,-2,-7\}$ and $\mu = \{2,7,-5,9,-2,-7,-6,-8,8,5\}$, find $A \cap \mu$

- (i) {-6,2,7,9,-7,-2} (ii) {7,2,-7,-5,9,-2} (iii) {-12,-5,9,4,-2,7} (iv) {1,-2,2,5,-5,-7,7,9} (v) {2,9,-2,-7,-5}

Assignment Key

1) (iv)	2) (i)	3) (ii)	4) (iii)	5) (v)	6) (v)
7) (iii)	8) (ii)	9) (ii)	10) (iii)	11) (iv)	12) (ii)
13) (iv)	14) (iii)	15) (i)	16) (iv)	17) (iii)	18) (iv)
19) (iv)	20) (iv)	21) (iv)	22) (ii)	23) (i)	24) (ii)
25) (ii)					