

EduSahara™ Learning Center Assignment**Grade : Class VII, ICSE****Chapter : Sets****Name : Operations on Sets****Licensed To : Teachers and Students for non-commercial use**

1. If $A = \{2, 5, 3\}$ and $B = \{4, 1, 3\}$, then $A \cup B =$

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

2. If $A = \{5, 0, 8, 2, 1\}$ and $B = \{6, 1, 3, 5, 10\}$, then $A \cup B =$

- (i) $\{1, 13, 3, 2, 0, 10, 6, 5\}$ (ii) $\{1, 8, 2, 6, 0, 13, 10, 3, 5\}$
(iii) $\{2, 0, 3, 8, 1, 5, 6\}$ (iv) $\{1, 0, 8, 10, 6, 2, 3, 5\}$
(v) $\{10, 3, 1, 8, 0, 2, 6\}$
-

3. If $A = \{10, 14, 7, 2, 9, 0, 5\}$ and $B = \{6, 10, 14, 11, 9, 3, 15\}$, then $A \cup B =$

- (i) $\{7, 14, 3, 15, 0, 6, 5, 2, 10, 9, 11\}$
(ii) $\{7, 14, 9, 6, 17, 10, 15, 0, 3, 5, 2\}$
(iii) $\{2, 6, 11, 7, 0, 3, 18, 10, 9, 15, 5, 14\}$
(iv) $\{14, 5, 15, 2, 6, 10, 11, 9, 3, 0\}$
(v) $\{9, 2, 14, 10, 15, 11, 3, 7, 5, 0\}$
-

4. If $A = \{13, 1, 8, 6, 10\}$, $B = \{8, 7, 6, 3, 14\}$ and $C = \{1, 15, 13, 9, 8\}$, then
 $A \cup (B \cup C) =$

- (i) $\{\}$ (ii) $\{7, 1, 9, 15, 6, 8, 13, 14, 10\}$
(iii) $\{13, 7, 1, 8, 3, 15, 9, 6, 14\}$ (iv) $\{10, 3, 15, 8, 14, 9, 7, 13, 1, 6\}$
(v) $\{7, 14, 3, 13, 1, 9, 6, 19, 15, 10, 8\}$
-

5. If $A = \{13, 15, 5, 4, 0, 10\}$, $B = \{11, 12, 0, 6, 4, 1\}$ and $C = \{14, 9, 8, 2, 10, 15\}$, then
 $A \cup (B \cup C) =$

- (i) $\{11, 14, 0, 6, 1, 12, 9, 4, 15, 5, 13, 10, 2\}$
(ii) $\{6, 5, 4, 13, 0, 10, 8, 15, 11, 12, 14, 1, 9, 2\}$
(iii) $\{6, 4, 16, 1, 8, 10, 2, 9, 12, 11, 14, 0, 13, 15, 5\}$
(iv) $\{\}$
-

6. If $A = \{14, 9, 1, 11, 12, 0, 5\}$, $B = \{7, 13, 9, 4, 1, 0, 8\}$ and $C = \{1, 15, 5, 13, 11, 8, 7\}$, then

$$A \cup (B \cup C) =$$

- (i) $\{13, 0, 11, 12, 4, 9, 8, 1, 15, 7, 5\}$
 - (ii) $\{8, 7, 4, 11, 5, 12, 0, 14, 13, 1, 9\}$
 - (iii) $\{7, 13, 9, 5, 14, 0, 12, 8, 15, 1, 11\}$
 - (iv) $\{1, 4, 15, 11, 7, 13, 0, 5, 12, 20, 9, 8, 14\}$
 - (v) $\{15, 14, 4, 11, 7, 13, 12, 5, 9, 8, 0, 1\}$
-

7. If $A = \{4, 8, 7, 3, 10\}$ and $B = \{8, 0, 7, 1, 4\}$, then $A \cap B =$

- (i) $\{8, 7, 1, 4\}$ (ii) $\{8, 7, 4, 10\}$ (iii) $\{8, 7, 4\}$ (iv) $\{7, 14, 4, 8\}$ (v) $\{3, 4, 8, 7, 1\}$
-

8. If $A = \{13, 10, 6, 11, 2, 9, 5\}$ and $B = \{6, 7, 9, 11, 12, 15, 13\}$, then $A \cap B =$

- (i) $\{13, 6, 11, 9, 12\}$ (ii) $\{19, 6, 13, 9, 11\}$ (iii) $\{6, 13, 9, 11\}$
 - (iv) $\{6, 5, 9, 11, 13\}$ (v) $\{9, 15, 5, 13, 6, 11\}$
-

9. If $A = \{5, 0, 4, 11, 14, 12\}$, $B = \{15, 11, 8, 7, 3, 6\}$ and $C = \{0, 1, 8, 9, 14, 2\}$, then $A \cap (B \cap C) =$

- (i) $\{6\}$ (ii) $\{2\}$ (iii) $\{\}$ (iv) $\{12\}$ (v) $\{19\}$
-

10. If $A = \{15, 11, 7, 6, 4, 12, 2, 5\}$, $B = \{3, 6, 2, 0, 14, 8, 1, 10\}$ and $C = \{13, 0, 11, 3, 6, 8, 15, 9\}$, then $A \cap (B \cap C) =$

- (i) $\{6\}$ (ii) $\{6, 4\}$ (iii) $\{6, 13\}$ (iv) $\{1, 6\}$ (v) $\{6, 18\}$
-

11. If $A = \{1, 6, 5, 4\}$ and $B = \{10, 6, 7, 4\}$, then $A - B =$

- (i) $\{5\}$ (ii) $\{7, 10\}$ (iii) $\{11, 1, 5\}$ (iv) $\{5, 4, 1\}$ (v) $\{5, 1\}$
-

12. If $A = \{2, 7, 15, 10, 1, 14\}$ and $B = \{12, 4, 5, 6, 1, 14\}$, then $A - B =$

- (i) $\{2, 1, 15, 10, 7\}$ (ii) $\{2, 7, 15\}$ (iii) $\{6, 5, 12, 4\}$
 - (iv) $\{2, 15, 20, 10, 7\}$ (v) $\{2, 10, 7, 15\}$
-

13. If $A = \{10, 0, 3, 1, 9, 4, 15, 8\}$ and $B = \{0, 15, 13, 3, 7, 4, 5, 8\}$, then $A - B =$

- (i) $\{20, 9, 1, 10\}$ (ii) $\{7, 13, 5\}$ (iii) $\{10, 9, 8, 1\}$ (iv) $\{1, 9, 10\}$ (v) $\{10, 9\}$
-

14. If $A = \{10, 9, 5, 3\}$ and $B = \{2, 7, 10, 3\}$, then $B - A =$

- (i) $\{7, 2\}$ (ii) $\{2, 7, 3\}$ (iii) $\{13, 2, 7\}$ (iv) $\{\}$ (v) $\{2\}$
-

15. If $A = \{5, 3, 14, 8, 11, 13\}$ and $B = \{6, 5, 8, 0, 2, 13\}$, then $B - A =$

- (i) $\{2, 6\}$ (ii) $\{\}$ (iii) $\{6, 2, 0, 17\}$ (iv) $\{0, 6, 2\}$ (v) $\{6, 2, 8, 0\}$
-

16. If $A = \{3, 7, 5, 9, 15, 0, 6, 10\}$ and $B = \{1, 5, 15, 14, 7, 11, 9, 10\}$, then $B - A =$

- (i) $\{14, 1\}$ (ii) $\{14, 11, 19, 1\}$ (iii) $\{14, 11, 9, 1\}$ (iv) $\{\}$ (v) $\{11, 1, 14\}$
-

17. The symmetric difference of set $A = \{4, 1, 2\}$
and set $B = \{5, 0, 2\}$ is

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

18. The symmetric difference of set $A = \{9, 0, 8, 4, 5\}$
and set $B = \{10, 4, 7, 5, 6\}$ is

- (i) $\{8, 7, 9, 0, 10, 6\}$ (ii) $\{6, 7, 10\}$ (iii) $\{9, 0, 8\}$
(iv) $\{8, 9, 6, 0, 10\}$ (v) $\{6, 7, 8, 9, 5, 10, 0\}$
-

19. The symmetric difference of set $A = \{7, 10, 12, 2, 9, 4, 3, 8\}$
and set $B = \{10, 9, 0, 14, 11, 6, 12, 8\}$ is

- (i) $\{2, 4, 7, 3\}$ (ii) $\{3, 14, 6, 4, 2, 11, 8, 0, 7\}$
(iii) $\{14, 6, 11, 0\}$ (iv) $\{7, 3, 0, 14, 11, 4, 2, 6\}$
(v) $\{3, 6, 7, 11, 4, 2, 14\}$
-

Assignment Key

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