

|                              |                           |                 |
|------------------------------|---------------------------|-----------------|
| Time: 10 Minutes             | Paper Math 8 (T-4)        | Total Marks: 10 |
| 2nd Month, 1st Week, 4th Day | Exercise 1.14, Q # (1, 2) |                 |

Q.No.1. Choose the correct option. (1 x 4 = 4) درست آپشن کا انتخاب کریں۔

i)  $A \cup B = ?$

|     |            |     |            |     |            |     |            |
|-----|------------|-----|------------|-----|------------|-----|------------|
| (a) | $B \cap A$ | (b) | $A \cap B$ | (c) | $A \cup B$ | (d) | $B \cup A$ |
|-----|------------|-----|------------|-----|------------|-----|------------|

ii) If  $A = \{1, 2, 3, \dots, 10\}$ ,  $B = \{7, 8, 9, 10, 11, 12\}$  Then find  $A \cup B = ?$

اگر  $A = \{1, 2, 3, \dots, 10\}$ ,  $B = \{7, 8, 9, 10, 11, 12\}$  تو  $A \cup B$  معلوم کریں۔

|     |   |     |                               |
|-----|---|-----|-------------------------------|
| (a) | $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$ | (b) | $\{1, 3, 5, 7, 9, 11\}$       |
| (c) | $\{2, 4, 6, 8, 10, 12\}$                    | (d) | $\{1, 2, 3, 5, 6, 7, 9, 10\}$ |

iii)  $X \cap (Y \cap Z) = ?$

|     |                     |     |                     |     |                     |     |                     |
|-----|---------------------|-----|---------------------|-----|---------------------|-----|---------------------|
| (a) | $X \cup (Y \cup Z)$ | (b) | $(X \cap Y) \cap Z$ | (c) | $X \cap (Y \cup Z)$ | (d) | $(X \cup Y) \cup Z$ |
|-----|---------------------|-----|---------------------|-----|---------------------|-----|---------------------|

iv) If  $X = \{-1, 0, 2, 4, 5\}$ ,  $Y = \{1, 2, 3, 4, 7\}$  and  $Z = \{4, 6, 8, 10\}$  Then find  $(X \cup Y) \cup Z$ .

اگر  $X = \{-1, 0, 2, 4, 5\}$ ,  $Y = \{1, 2, 3, 4, 7\}$  اور  $Z = \{4, 6, 8, 10\}$  تو  $(X \cup Y) \cup Z$  معلوم کریں۔

|     |   |     |                               |
|-----|---|-----|-------------------------------|
| (a) | $\{-1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 10\}$ | (b) | $\{0, 1, 2, 3, 4, 5, 6\}$     |
| (c) | $\{-1, 0, 1, 3, 5, 7, 9, \}$            | (d) | $\{0, 1, -1, 2, 3, 4, 5, 8\}$ |

Q.No.2. Verify. (2) حل کریں۔

$$A = \{1, 2, 3, \dots, 15\}$$

$$B = \{6, 8, 10, \dots, 20\}$$

$$A \cap B = B \cap A$$

Q.No.3. Verify. (4) حل کریں

$$X = \{1, 2, 3, \dots, 14\}$$

$$Y = \{6, 8, 10, \dots, 20\}$$

$$Z = \{1, 3, 5, 7\}$$

i)  $X \cup (Y \cup Z) = (X \cup Y) \cup Z$

ii)  $X \cap (Y \cap Z) = (X \cap Y) \cap Z$

|                              |                           |                 |
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| Time: 10 Minutes             | Paper Math 8 (T-4)        | Total Marks: 10 |
| 2nd Month, 1st Week, 4th Day | Exercise 1.14, Q # (1, 2) |                 |

Q.No.1. Choose the correct option. (1 x 4 = 4) درست آپشن کا انتخاب کریں۔

i)  $A \cup B = ?$

|     |            |     |            |     |            |     |            |
|-----|------------|-----|------------|-----|------------|-----|------------|
| (a) | $B \cap A$ | (b) | $A \cap B$ | (c) | $A \cup B$ | (d) | $B \cup A$ |
|-----|------------|-----|------------|-----|------------|-----|------------|

ii) If  $A = \{1, 2, 3, \dots, 10\}$ ,  $B = \{7, 8, 9, 10, 11, 12\}$  Then find  $A \cup B = ?$

اگر  $A = \{1, 2, 3, \dots, 10\}$ ,  $B = \{7, 8, 9, 10, 11, 12\}$  تو  $A \cup B$  معلوم کریں۔

|     |   |     |                               |
|-----|---|-----|-------------------------------|
| (a) | $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$ | (b) | $\{1, 3, 5, 7, 9, 11\}$       |
| (c) | $\{2, 4, 6, 8, 10, 12\}$                    | (d) | $\{1, 2, 3, 5, 6, 7, 9, 10\}$ |

iii)  $X \cap (Y \cap Z) = ?$

|     |                     |     |                     |     |                     |     |                     |
|-----|---------------------|-----|---------------------|-----|---------------------|-----|---------------------|
| (a) | $X \cup (Y \cup Z)$ | (b) | $(X \cap Y) \cap Z$ | (c) | $X \cap (Y \cup Z)$ | (d) | $(X \cup Y) \cup Z$ |
|-----|---------------------|-----|---------------------|-----|---------------------|-----|---------------------|

iv) If  $X = \{-1, 0, 2, 4, 5\}$ ,  $Y = \{1, 2, 3, 4, 7\}$  and  $Z = \{4, 6, 8, 10\}$  Then find  $(X \cup Y) \cup Z$ .

اگر  $X = \{-1, 0, 2, 4, 5\}$ ,  $Y = \{1, 2, 3, 4, 7\}$  اور  $Z = \{4, 6, 8, 10\}$  تو  $(X \cup Y) \cup Z$  معلوم کریں۔

|     |   |     |                               |
|-----|---|-----|-------------------------------|
| (a) | $\{-1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 10\}$ | (b) | $\{0, 1, 2, 3, 4, 5, 6\}$     |
| (c) | $\{-1, 0, 1, 3, 5, 7, 9, \}$            | (d) | $\{0, 1, -1, 2, 3, 4, 5, 8\}$ |

Q.No.2. Verify. (2) حل کریں۔

$$A = \{1, 2, 3, \dots, 15\}$$

$$B = \{6, 8, 10, \dots, 20\}$$

$$A \cap B = B \cap A$$

Q.No.3. Verify. (4) حل کریں

$$X = \{1, 2, 3, \dots, 14\}$$

$$Y = \{6, 8, 10, \dots, 20\}$$

$$Z = \{1, 3, 5, 7\}$$

i)  $X \cup (Y \cup Z) = (X \cup Y) \cup Z$

ii)  $X \cap (Y \cap Z) = (X \cap Y) \cap Z$