

Ex-10 (B)

1) If set $A = \{2, 3, 4, 5, 6\}$ state which of the following are true and which are false.

- i) $2 \in A$ - True
- ii) $5, 6 \in A$ - True
- iii) $3, 4, 7 \in A$ - false
- iv) $2, 8 \in A$ - false

2) If set $B = \{4, 6, 8, 10, 12, 14\}$ state which of the following statements are correct and which are wrong:

- i) $5 \in B$ - false wrong
- ii) $12 \in B$ - True correct
- iii) $14 \in B$ - True correct
- iv) $9 \in B$ - false wrong
- v) B is the set of even numbers between 2 and 16. True correct
- vi) 4, 6, 10 are the members of set B . True correct
The wrong statements are $5 \in B$ & $9 \in B$ - Its correct form is $5 \notin B$, $9 \notin B$.

3. State whether true or false:

- i) Sets $\{1, 9, 16, 25\}$ and $\{6, 2, 4, 9\}$ are not same. False
- ii) Sets $\{0, 1, 3, 9, 4\}$ and $\{1, 0, 1, 3, 9, 4\}$ are the same. True
- iii) Sets $\{5, 4\}$ and $\{5, 4, 1, 5\}$ are not the same. False
- iv) Sets $\{8, 3\}$ and $\{3, 3, 8\}$ are the same. True
- v) Collection of vowels used in the word 'ALLAHBAD' form a set. True
- vi) If P is the set of letters in the word 'ROOP', then $P = \{P, O, R\}$. True
- vii) If M is the set of letters used in the word 'MUMBAI', then: $M = \{m, u, b, a, i\}$. True

4) Write the set containing:

- i) the first five counting numbers $\{1, 2, 3, 4, 5\}$
- ii) The three types of angles $\{\text{acute angle, right angle, } \overset{\text{obtuse}}{\text{straight}}\}$
- iii) The three types of triangle $\{\text{equilateral, scalene triangle, isosceles triangle}\}$
- iv) The members of your family $\{\text{mummy, daddy, uncle, aunt}\}$
- v) the first six consonants of English alphabet $\{b, c, d, f, g, h\}$
- vi) the first four vowels of the English alphabets $\{a, e, i, o, u\}$
- vii) the names of any three Prime Minister of India $\{\text{Jawaharlal Nehru, Narendra Modi, Indira Gandhi}\}$

5) a) Write the members of each set given below:

- i) $\{3, 8, 15, 12, 7\}$ ans - $\{3, 8, 15, 7, 12\}$
- ii) $\{c, m, n, o, s\}$ ans - $\{c, m, n, o, s\}$

b) Write the sets whose elements are:

- i) $2, 4, 8, 16, 64, 128$ ans - $\{2, 4, 8, 16, 64, 128\}$
- ii) $3, 5, 15, 45, 75, 90$ ans - $\{3, 5, 15, 45, 75, 90\}$

6) i) Write the set of letters used in the word 'BHOPAL'.
ans - $\{b, h, o, p, a, l\}$

ii) Write the set of vowels used in the word 'BENGAL'.
ans $\{b, e, n, g, a, l\}$ $\{e, a\}$

iii) Write the set of consonants used in the word 'HONGKONG'.
ans $\{h, n, g, k\}$

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