

- a) {12, 14, 16, 18, 19}
- b) {12, 14, 16, 18}
- c) {12, 16, 18, 20}
- d) {10, 12, 14, 16, 18, 20}

9. Write a set whose members are perfect square natural numbers and each element is less than 40.

- a) $P = \{1, 4, 9, 16, 25, 36\}$
- b) $P = \{1, 3, 9, 16, 25, 36\}$
- c) $P = \{4, 9, 16, 25, 36\}$
- d) $P = \{1, 4, 9, 16, 25, 36, 49\}$

10. A set of A of all 2-digit numbers, the sum of whose digits is 8.

- a) $A = \{17, 26, 44, 53, 62, 71, 80\}$
- b) $A = \{17, 26, 35, 44, 53, 62, 71, 80\}$
- c) $A = \{17, 26, 35, 44, 53, 62, 71\}$
- d) None of these

11. Write the following set in the set builder form.

$$P = \{a, e, i, o, u\}$$

- a) $P = \{x \mid x \text{ is a vowel of English alphabet}\}$
- b) $P = \{x \mid x \text{ is a letter of English alphabet}\}$
- c) $P = \{x \mid x \text{ is a consonant of English alphabet}\}$
- d) None of these

12. Write the following set in the set builder form.

$$A = \{\text{January, March, May, July, August, October, December}\}$$

- a) $A = \{x \mid x \text{ is a month of the year having 30 days}\}$
- b) $A = \{x \mid x \text{ is a month of the year having 31 days}\}$
- c) $A = \{x \mid x \text{ is a month of the year having 28 days}\}$
- d) None of these

13. Write the following set in the set builder form.

$$R = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}$$

- a) $R = \{x \mid x \text{ is a natural number less than 10}\}$

- b) $R = \{x \mid x \text{ is a natural number less than } 9\}$
- c) $R = \{x \mid x \text{ is a whole number less than } 10\}$
- d) none of these

14. Write the following sets in a Roster form.

$P = \{x \mid x \text{ is number of dots on a dice}\}$

- a) $P = \{1, 2, 3, 5, 6\}$
- b) $P = \{1, 2, 4, 5, 6\}$
- c) $P = \{1, 2, 3, 4, 5, 6\}$
- d) None of these

15. Write the following sets in a Roster form.

$Q = \{x \mid x \text{ is prime factor of } 30\}$

- a) $Q = \{1, 2, 3, 10, 15, 30\}$
- b) $Q = \{1, 2, 3, 5, 6, 10, 15, 30\}$
- c) $Q = \{2, 3, 5, 6, 10, 15\}$
- d) None of these