SETS

UNIVERSAL SET

EXERCISE

Q.1 A set that serves as a superset for all fundamental sets of that particular type is called?

(a) Power set
(b) Universal set
(c) Empty set
(d) Singleton set

Q.2 What is the universal set for integers among the following options?

(a) Natural numbers
(b) Whole numbers
(c) Rational numbers
(d) Prime numbers

Q.3 Consider sets A = {1, 2}, B = {2, 4}, C = {4, 5, 6}. Which of the following could be regarded as the universal set for sets A, B, C?

(a) {1,6,7,8,9}
(b) {1,2,3,4}
(c) {2,4,5,6}
(d) {1,2,3,4,5,6}

Q.4 What among the following can be considered a universal set for the equilateral triangle?

(a) Set of isosceles triangles
(b) Set of right triangles
(c) Set of acute triangles
(d) Set of obtuse triangles

Q.5 What is recognized as the universal set for squares among the following?

(a) Set of Rhombus
(b) Set of Parallelogram
(c) Set of Rectangle
(d) Set of Trapezium

Q.6 What is the universal set for {a, p} among the following?

(a) Set of vowels
(b) Set of consonants
(c) Set of letters of English alphabet
(d) Set of numbers

Q.7 What is regarded as the universal set for the set of multiples of 4 among the following?

(a) Set of multiple of 16
(b) Set of multiple of 12
(c) Set of multiple of 2
(d) Set of multiple of 8

Q.8 Let U = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9}. Which of the following is not included as a subset of the universal set?

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

Q.9 The set {a, b, e, i, o, u, v, z} serves as the universal set for a collection of vowels.

(a) True
(b) False

Q.10 The set of prime numbers serves as the universal set for odd numbers.

(a) True
(b) False

ANSWER KEY

1. (b)
2. (c)
3. (d)
4. (a)
5. (c)
6. (c)
7. (c)
8. (d)
9. (a)
10. (b)