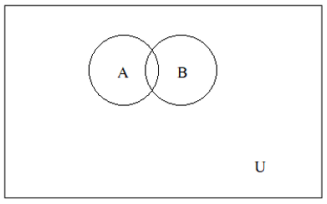
SETS

VENN DIAGRAM AND OPERATION ON SETS

EXERCISE

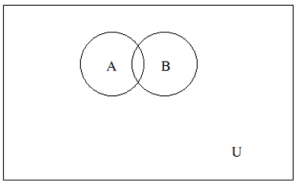
Q.1 In the given Venn diagram, is set A subset of set B?



(a) True

(b) False

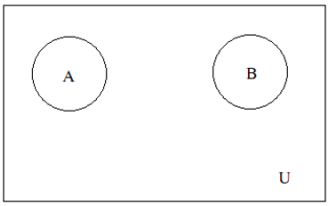
Q.2 In the given Venn diagram, is set A subset of set U?



(a) True

(b) False

Q.3 Which of the following statement is correct?



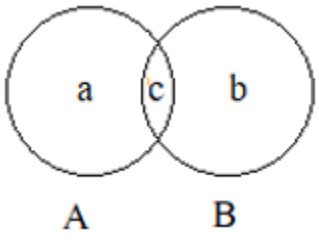
(a) A is subset of B

(b) B is subset of A

(c) U is subset of A and B

(d) A and B are subsets of U

Q.4 If n(A)=10, n(B)=20, c=5 in the given Venn diagram. Find a and b.



(a) a=10 and b=15

(b) a=5 and b=15

(c) a=15 and b=10

(d) a=15 and b=5

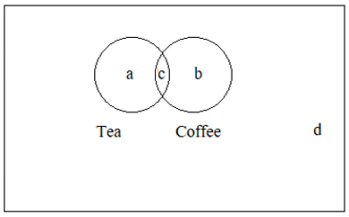
Q.5 In a population of 100 persons, 40 persons like tea and 30 persons like coffee. 10 persons like both of them. How many persons like only tea?

(a) 10

(b) 20

(c) 30

(d) 40



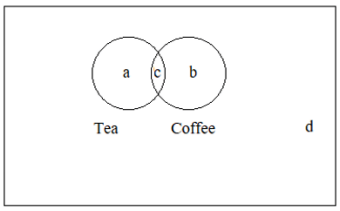
Q.6 In a population of 100 persons, 40 persons like tea and 30 persons like coffee. 10 persons like both of them. How many persons like only coffee?

(a) 10

(b) 20

(c) 30

(d) 40



Q.7 If A = {1,2,3} and B = {3,4,5,6}. Find A∪B.

(a) {1,2,3} (b) {3}

(c) {1,2,3,4,5,6} (d) { }

Q.8 Let A be the set of odd numbers and B be the set of even numbers then find A∩B.

(a) Set of prime numbers

(b) Set of real numbers

(c) Empty set

(d) Set of natural numbers

Q.9 If A={a, e, i, o, u} and B={a, e, u} then A∪B = _____

(a) A (b) B

(c) Φ (d) A∩B

Q.10 If A = {a, e, i, o, u} and B = {a, e, u} then A∩B=_____

(a) A (b) B

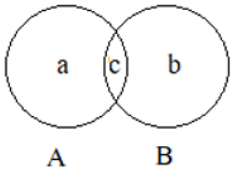
(c) Φ (d) A∪B

Q.11 If A = {1,2,3} and B = {3,4,5,6}. Find A∩B.

(a) {1,2,3} (b) { }

(c) {1,2,3,4,5,6} (d) {3}

Q.12 In the given Venn diagram, find A∪B.



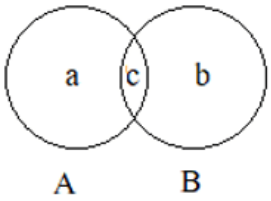
(a) a

(b) b

(c) a + c

(d) a + b + c

Q.13 In the given Venn diagram, find A∩B.



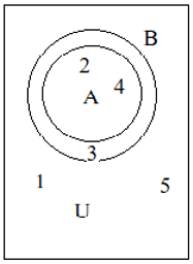
(a) a

(b) b

(c) c

(d) a + b + c

Q.14 In the given Venn diagram, find A∪B.



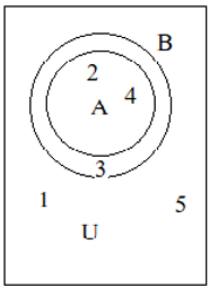
(a) {1,2,3}

(b) {2,4}

(c) {3}

(d) {2,3,4}

Q.15 In the given Venn diagram, find A∩B.



(a) {1,2,3}

(b) {2,4}

(c) {3}

(d) {2,3,4}

ANSWER KEY

1. (b)

2. (a)

3. (d)

4. (b)

5. (c)

6. (b)

7. (c)

8. (c)

9. (a)

10. (b)

11. (d)

12. (d)

13. (c)

14. (d)

15. (b)