his set of Mathematics Multiple Choice Questions & Answers (MCQs) focuses on "Operation on Sets-1".

1. 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) { }
View Answer
Answer: c
Explanation: Union of set A and B is a set that contains all the elements of set A and set B.
A = {1,2,3}
B = {3,4,5,6}
A∪B = {1,2,3,4,5,6}.

2. 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
View Answer
Answer: c
Explanation: Intersection of set A and B is a set that contains elements which is common to both set A and set B. Set of odd numbers and even numbers does not have any common element so, A∩B is an empty set.

3. If A={a, e, i, o, u} and B={a, e, u} then A∪B = _____
a) A
b) B
c) Φ
d) A∩B
View Answer
Answer: a
Explanation: Union of set A and B is a set that contains all the elements of set A and set B.
A={a, e, i, o, u}
B={a, e, u}
A∪B={a, e, i, o, u} = A.

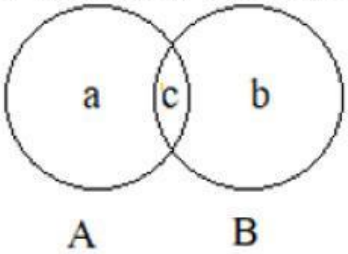
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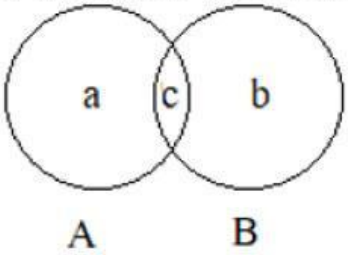
4. If A = {a, e, i, o, u} and B = {a, e, u} then A∩B=_____
a) A

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b) B
c) Φ
d) A∪B
View Answer
5. 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}
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6. Is A∪B = B∪A?
a) True
b) False
View Answer
7. Is A∩B = B∩A?
a) True
b) False
View Answer
8. In the given Venn diagram, find A∪B.



a) a
b) b
c) a + c
d) a + b + c
View Answer
9. In the given Venn diagram, find A∩B.



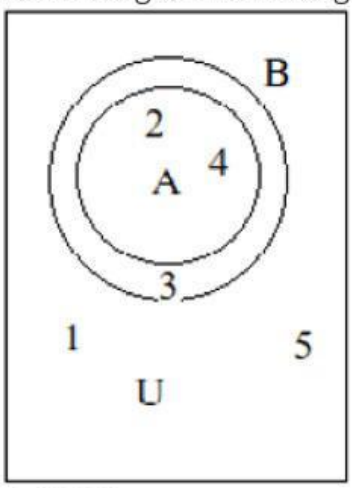
a) a
b) b
c) c

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d) a + b + c

View Answer

10. In the given Venn diagram, find A∪B.



a) {1,2,3}

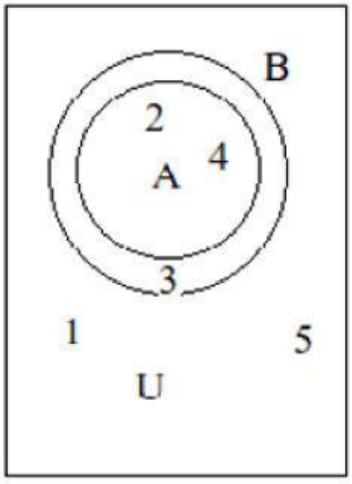
b) {2,4}

c) {3}

d) {2,3,4}

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11. In the given Venn diagram, find A∩B.



a) {1,2,3}

b) {2,4}

c) {3}

d) {2,3,4}

View Answer

Answer: b

Explanation: Intersection of two sets A and B is the region common to both set A and set B.

In the given Venn diagram, A∩B={2,4}

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