MATHS

BOOKS - CENGAGE

SETS

Worked Example

1. Each person in a group of 80 can speak either Hindi or English or both. If 55 persons can speak English and 40 can speak both, find the number of persons who can speak Hindi.

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2. A group of members know at least one of the two languages, Hindi or Kannada. In the group, 150 members know Hindi and 80 members know

Kannada and 70 of them know both. How many members are there in the group?

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3. There are 64 persons in a group. Each of them eats either an apple or an orange or both. The number of persons who eat apples is 28 and those who eat both apples and oranges are 13. How many eat oranges only?

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4. Of the 94 pupils who secured first class marks in mathematics or in English, 61 obtained first class marks in mathematics and 24 in English and mathematics. How many scored first class marks in English only?

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5. In a school, 900 students offer mathematics, 450 offer physics, and 262 students offer both physics and mathematics. How many students offer

(a) Mathematics only?

(b) Physics only?

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6. In a group of 72 students, 32 can speak Telugu only and 19 can speak English only. How many can speak both English and Telugu?

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7. In a survey of 25 students, it was found that 15 had taken mathematics, 12 had taken physics, and 11 had taken chemistry, 5 had taken mathematics and chemistry, 9 had taken mathematics and physics, 4 had taken physics and chemistry, and 3 had taken all the three subjects. Find the number of students who had taken

(a) Only mathematics.

(b) Mathematics and physics, but not chemistry.

(C) At least one of the three subjects.

(d) Only one of the three subjects.

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Test Yourself Level 1

1. Write the set in tabular form and rule method.

D = set of positive integral divisors of 19 .

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2. Write the set in tabular form and rule method.

$D_2 =$ set of negative integers between -9 and -1.

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3. Write the set in tabular form and rule method.

G = set of positive rational numbers having numerator equal to 1.

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4. Write the set in tabular form.

$H\{x \mid x^2 = 36\}$

View Text Solution

5. Write the set in tabular form.

$J = \{x \mid (x-2)(x-3) = 0\}$

View Text Solution

6. Write the set in tabular form.

$S = \{x \mid x > 0$ is an interger between -1 and 2 $\}$

View Text Solution

7. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$15 \square O$

View Text Solution

8. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$25 \square G$

View Text Solution

9. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$\{15, 3\} \square O$

View Text Solution

10. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$\{0, 2\} \square E$

View Text Solution

11. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$123, 125 \square O$

View Text Solution

12. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$6, 10 \square E$

View Text Solution

13. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$-35 \square G$

View Text Solution

14. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$\{-16\} \square O$

View Text Solution

15. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$\{25\} \square E$

View Text Solution

16. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$2, 4, 6 \square E$

View Text Solution

17. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$\{2, 6, 8, 10, 12\} \square E$

View Text Solution

18. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$\{435\} \square O$

View Text Solution

19. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$\{18\} \square E$

View Text Solution

20. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$\{25, 37\} \square O$

View Text Solution

21. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$\{35, 45\} \square G$

View Text Solution

22. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$0 \square G$

View Text Solution

23. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$\{4810\} \square G$

View Text Solution

24. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$6415 \square G$

View Text Solution

25. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$\{x \mid x, x^2 - 8x + 12 = 0\} \square G$

View Text Solution

26. Write the correct symbol $\in$, $\notin$, $\subseteq$ or $\not\subseteq$ in the boxe proved in the statement.

$\{x \mid x, x^2 - 15x + 50 = 0\} \square G$

View Text Solution

27. Net = the set of natural number.

Z = the set of integers.

Q = the set of rational number.

Q = the set of irrational number.

R = the set of real number.

Name the four sets in which 12 is an element.

View Text Solution

28. Net = the set of natural number.

Z = the set of integers.

Q = the set of rational number.

Q = the set of irrational number.

R = the set of real number.

Name two sets in which $\sqrt{15}$ appears as an element.

View Text Solution

29. Net = the set of natural number.

Z = the set of integers.

Q = the set of rational number.

Q = the set of irrational number.

R = the set of real number.

Which three of the above sets have 0 as an element ?

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30. Net = the set of natural number.

Z = the set of integers.

Q = the set of rational number.

Q = the set of irrational number.

R = the set of real number.

Which two of the above sets have $3+\sqrt{10}$ as an element ?

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31. Net = the set of natural number.

Z = the set of integers.

Q = the set of rational number.

Q = the set of irrational number.

R = the set of real number.

Which three of the above sets have -6 as an element ?

View Text Solution

32. Net = the set of natural number.

Z = the set of integers.

Q = the set of rational number.

Q = the set of irrational number.

R = the set of real number.

Which tow of the above sets do not have $3/8$ as an element ?

View Text Solution

33. Net = the set of natural number.

Z = the set of integers.

Q = the set of rational number.

Q = the set of irrational number.

R = the set of real number.

Which two of the above sets have $0.\overline{1573}$..... as an element ?

View Text Solution

34. Net = the set of natural number.

Z = the set of integers.

Q = the set of rational number.

Q = the set of irrational number.

R = the set of real number.

Which two of the above sets have $2.1420157346.....$ As an element ?

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35. Net = the set of natural number.

Z = the set of integers.

Q = the set of rational number.

Q = the set of irrational number.

R = the set of real number.

Which two of the above sets have $-4/15$ as an element ?

View Text Solution

36. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

$\frac{3}{5} \in \square$

View Text Solution

37. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

$-8 \in \square$

View Text Solution

38. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

$56 \in \square$

View Text Solution

39. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

$\frac{8}{4} \in \square$

View Text Solution

40. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

$\sqrt{25} \in \square$

View Text Solution

41. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

$\sqrt{7} \in \square$

View Text Solution

42. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

$\sqrt{8} \in \square$

View Text Solution

43. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

$-\frac{5}{6} \in \square$

View Text Solution

44. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

$\sqrt{\frac{6}{9}} \in \square$

View Text Solution

45. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

$\sqrt{\frac{75}{3}} \in \square$

View Text Solution

46. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

$3+3+\sqrt{7} \in \square$

View Text Solution

47. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

$0.93293\overline{232} \in \square$

View Text Solution

48. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

$\sqrt{\frac{50}{25}} \in \square$

View Text Solution

49. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

$\frac{0}{28} \in \square$

View Text Solution

50. Fill in eht boxe with appropriate sets N,Z, Q, Q,' and R.

2. $0202000300004 \in \square$

View Text Solution

Test Yourself Level 2

1. $A = \{-2, 0, 8\}, B = \{-1, 0, 7, 9, -12\}$. List the element of

$A \cup B$

View Text Solution

2. $A = \{-2, 0, 8\}, B = \{-1, 0, 7, 9, -12\}$. List the element of

$A \cup \varnothing$

View Text Solution

3. $A = \{-2, 0, 8\}, B = \{-1, 0, 7, 9, -12\}$. List the element of $B \cup \varnothing$

View Text Solution

4. $P = \{1, 2, 3, 4, 5, 6\}, S = \{2, 4, 5\}$

List the elements of $P \cup S$.

View Text Solution

5. $P = \{1, 2, 3, 4, 5, 6\}, S = \{2, 4, 5\}$

Is the statement. $P \cup S = P$ true of false ?

View Text Solution

6. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

$A \cup B$

View Text Solution

7. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

$B \cup C$

View Text Solution

8. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

$A \cup C$

View Text Solution

9. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

$A \cap B$

View Text Solution

10. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

B nn C`

View Text Solution

11. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

$A \cap C$

View Text Solution

12. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

$A - B$

View Text Solution

13. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

$B - C$

View Text Solution

14. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

$C - A$

View Text Solution

15. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

$B - A$

View Text Solution

16. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

$C - B$

View Text Solution

17. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

$A - C$

View Text Solution

18. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

$A - A$

View Text Solution

19. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

$B - B$

View Text Solution

20. Let

$A = \{1, 2, 3, 4, 5, \ldots., 12\}, B = \{1, 3, 5, 7, 9, 11\}, C = \{2, 4, 6, 8, 10, 12\}.$

Compute the

$C - C$

View Text Solution

21. If $n(A) = 18, nB = 12, (A \cap B) = \varnothing$ find $n(A \cup B)$.

View Text Solution

22. Given $n(U) = 70, n(A) = 50, n(B) = 42,$ find the greatest and least value of

$n(A \cap B)$

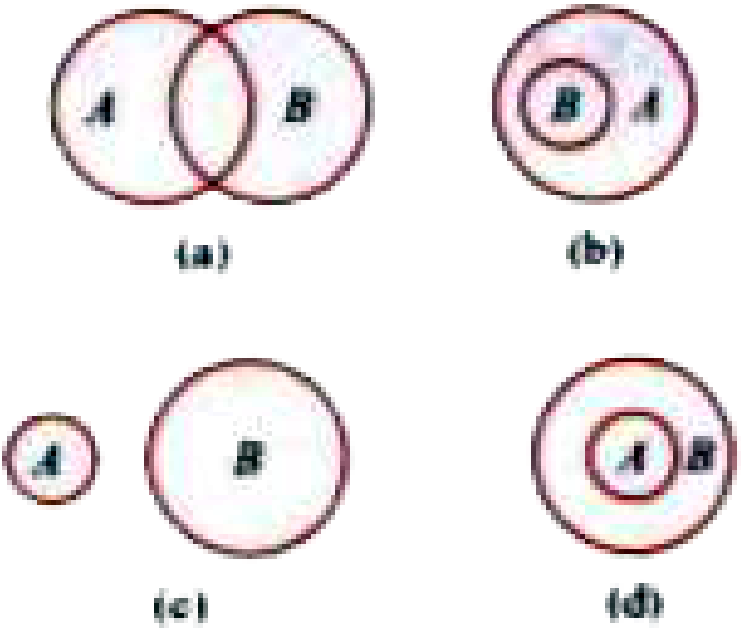
View Text Solution

23. Given $n(U) = 70, n(A) = 50, n(B) = 42,$ find the greatest and least value of

$n(A \cup B)$

View Text Solution

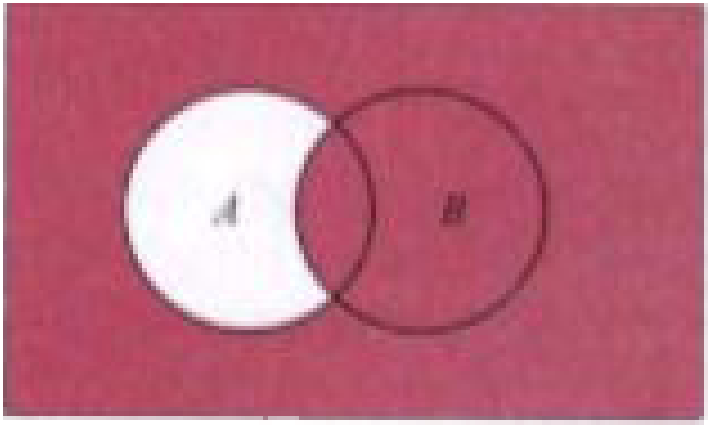
24. In the following figures, shade A union B, A intersection B and A minus B, separately.



View Text Solution

Test Yourself Level 3

1. Which opartion in shaded in the following figure ?



View Text Solution

2. Which opertion is shaded in the following figure ? Write in two ways.

View Text Solution

3. A survey of 500 television watchers produced the following information, 285 watch foot-ball, 195 watch hockey, 115 watch basketball, 45 watch football and basketball, 70 watch football and hockey, 50 watch hockey and basketball, 50 do not watch any of the three games. How many watch all the three games ? How many watch exactly one of the three games ?

Watch Video Solution

4. At break, 123 students go to the school canteen, which sells cokes, ice-creams, and pizzas. Of the total, 42 students buy ice-cream, 36 buy pizza, 10 buy only coke. 15 students buy ice-cream and pizza, 10 buy ice-cream and coke, 4 buy cokes and pizza, but not ice-cream and 11 buy ice-cream and pizza, but not coke. Draw a Venn diagram and find out

How many students buy nothing at all?

View Text Solution

5. At break, 123 students go to the school canteen, which sells cokes, ice-creams, and pizzas. Of the total, 42 students buy ice-cream, 36 buy pizza, 10 buy only coke. 15 students buy ice-cream and pizza, 10 buy ice-cream and coke, 4 buy cokes and pizza, but not ice-cream and 11 buy ice-cream and pizza, but not coke. Draw a Venn diagram and find out

How many students buy at least two items?

View Text Solution

6. If

$A = \{0, 1, 2, 3, 4, 5, 6\}, B = \{4, 5, 6, 7, 8\}, C = \{7, 8, 9, 2, 3\}$, and $U\{-0$

then verify the

$(A - B) - C = A - (B \cup C)$

View Text Solution

7. If

$A = \{0, 1, 2, 3, 4, 5, 6\}, B = \{4, 5, 6, 7, 8\}, C = \{7, 8, 9, 2, 3\}$, and $U\{-0$

then verify the

$A(B - C) = (A - B) \cup (A \cap C)$

View Text Solution

8. If

$A = \{0, 1, 2, 3, 4, 5, 6\}, B = \{4, 5, 6, 7, 8\}, C = \{7, 8, 9, 2, 3\}$, and $U\{-0$

then verify the

$A \cap (B - C) = (A \cap B) - (A \cap C)$

View Text Solution

9. If

$A = \{0, 1, 2, 3, 4, 5, 6\}, B = \{4, 5, 6, 7, 8\}, C = \{7, 8, 9, 2, 3\}$, and $U\{-0$

then verify the

$(A - B) = A \cap B$

View Text Solution

10. If

$A = \{0, 1, 2, 3, 4, 5, 6\}, B = \{4, 5, 6, 7, 8\}, C = \{7, 8, 9, 2, 3\}$, and $U\{-0$

then verify the

$(A \cap B)' = A' \cap B'$

View Text Solution

11. If

$A = \{0, 1, 2, 3, 4, 5, 6\}, B = \{4, 5, 6, 7, 8\}, C = \{7, 8, 9, 2, 3\}$, and $U\{-0$

then verify the

$(A \cap B)' = A' \cup B'$

View Text Solution

Test Yourself Level 3 Multiple Choice Questions

1. Which of the following collections is et ?

A. collection of talented students

B. collection of most beautiful flowers

C. collection of goals scored by Lionel Messi

D. collection of melodious songs

Answer: C

View Text Solution

2. Consider a set $A = \{1, 2\{3, 4\}, 5, \{\phi\}\}$, then which of the following is correct ?

A. $\{3, 4\} \subseteq A$

B. $\{\phi\} \subseteq A$

C. $3 \in A$

D. None of these

Answer: D

View Text Solution

3. Let $S = \{x \mid x$ is an even prime number$\}$, then n (S) =

A. 1

B. 0

C. 2

D. > 1

Answer: A::B::C::D

View Text Solution

4. Let $S_1 = \{x \mid x$ is th ratio of circumference and diametr of circle$\}$, $S_2 = \{\pi\}$, then which of the following is incorrect ?

A. $S_1 - S_2 = \phi$

B. $S_1 \cup S_2 = S_1$

C. $S_1 = S_2$

D. None of these

Answer: A::B::C::D

View Text Solution

5. Let the sets A and B be defined as

$A = \left\{x \mid x + \frac{1}{x} = 2, x \in R\right\}$ and $B = \{x \mid x^2 - 4x + 3 = 0, x \in R\}$

then which of the following is incorrect ?

A. $n(A) = 1$

B. $n(A) = 2$

C. $A \subseteq B$

D. $B \subseteq A$

Answer: C

View Text Solution

6. Let the sets A and B be defined as

A = {x |x + (1)/(x) = 1, x in R} and B = {x|` is a real number} then whcih of the following is correct ?

A. $n(A) = 1$

B. $A \cap B = \phi$

C. $A \in B$

D. $A \cap B = B$

Answer: B

View Text Solution

7. Which of the following is null set ?

A. $\{x \mid x \in R \text{ and } x^2 - 3x + 2 = 0\}$

B. $\{c \mid x \in Q \text{ and } x$ has non-terminating non-repeating decimal representation$\}$

C. $\{c \mid c \leq 1 \text{ and } x \in N\}$

D. $\{x \mid x$ is an even prime number $\}$

Answer: B

View Text Solution

8. Which of the following is NOT an infinite set ?

A. set of rational numbers between any two number on number line

B. set of irrational numbers between any two numbers on number line

C. set of rationl numbers between $0.\bar{9}$ and 1.

D. None of these

Answer: C

View Text Solution

9. If $A = \{1, 2, 3\},$ then the number of subsets of A is

A. 3

B. 6

C. 8

D. 9

Answer: C

View Text Solution

10. Let $A = \{a, e, I, o, u\}$ and $B = \{a, i\}$, then $A \cup B$ is

A. $A - B$

B. B

C. $A \cap B$

D. A

Answer: D

View Text Solution

11. Which of the following is an empty set ?

A. $\left\{x \mid x \text{ is a real number and } \frac{1}{x} = 0\right\}$

B. $\{x \mid x$ is a real number and $x^2 = \pi\}$

C. {x|x is an integer and $x^2 = 4x - 3\}$

D. None of these

Answer: A::B::C::D

View Text Solution

12. Two finite sets A and B have m and n elements, respectively. If total number of subsets of first set is 2^n more than the total number of subsets of second set, then $m - n$ is

A. 0

B. 1

C. 2

D. any natureal number

Answer: B

View Text Solution

13. Let $A\{x \mid x$ is a multiple of $3\}$ and $B = \{x \mid x$ is multiple of $7\}$, then $A \cap B$ is

A. $\{3, 6, 9, . . \}$

B. $\{7, 14, 21, \ldots\}$

C. $\{21, 42, 65, \ldots\}$

D. None of these

Answer: C

View Text Solution

14. Let $A = \{(x, y) \mid y = x, x \in R\}$ and $B = \{(x, y) \mid y = -x, x \in R\}$ then

A. $A \cap B = A$

B. $A \cap B = B$

C. $A \cap B = \phi$

D. None of these

Answer: D

View Text Solution

15. The number of elements in the set $\{(x, y) \mid x^2 + y^2 = 25 \text{ and } x, y \in z\}$ is

A. 2

B. 4

C. 6

D. 8

Answer: D

View Text Solution

16. Let A and B be two non-empty sets and A' denote the complement of A, then $A \cap (A \cup B)' =$

A. A

B. ϕ

C. $A \cap B$

D. ϕ

Answer: D

View Text Solution

17. Let P and Q be two non-empty sets. Then $P \cap (P \cup Q)$ is

A. P

B. Q

C. $P \cup Q$

D. ϕ

Answer: A::B::C::D

View Text Solution

18. In a town of 700 persons, 400 speak Hindi, 200 speak French and 100 speak both Hindi and French. The number of persons who speak only Hindii is

A. 400

B. 300

C. 200

D. 100

Answer: B

View Text Solution

19. In a town of 700 persons, 400 speak Hindi, 200 speak French and 100 speak both Hindi and French. The number of persons who speak either Hindi or French is

A. 500

B. 300

C. 700

D. 600

Answer: A::B::C::D

View Text Solution

Test Yourself Level 3 Multiple Choice Questions Olympiad And Ntse Level Excercises

1. Let N be the set of non-negative intergers, I and set of integers, N_P the set of non-positive integers, E the set of even integers and P the set of

prime numbers. Then

A. $I - N = N_P$

B. $N \cap N_P = \phi$

C. $E \cap P = \phi$

D. $N \Delta N_P^P = I - \{0\}$

Answer: D

View Text Solution

2. Let A and B two sets, then $(A \cup B)^c \cup (A^c \cap B)$ equals

A. A^C

B. B^C

C. A

D. None of these

Answer: A::B::C::D

View Text Solution

3. If $A = \{\phi, \{\phi\}\},$ then the power set of A is

A. A

B. $\{\phi, \{\phi\}, A\}$

C. $\{\phi, \{\phi\}, \{\{\phi\}\}, A\}$

D. None of these

Answer: C

View Text Solution

4. In $n(A) = 3, n(B) = 6$ and $A \subseteq B$ then the number of elements in $A \cup B$ is equal to

A. 3

B. 9

C. 6

D. None of these

Answer: C

View Text Solution

5. If $X = \{8^n - 7n - 1, n \in N\}$ and $Y = \{49n - 49, n \in N\}$, then

A. $X \subset Y$

B. $Y \subset X$

C. $X = Y$

D. $X \cap Y = \phi$

Answer: A::B::C::D

View Text Solution

6. If A, B and C are non-empty sets, then $(A - B) \cup (B - A)$ equals

A. $(A \cup B) - B$

B. $A - (A \cap B)$

C. $(A \cup B) - (A \cap B)$

D. $(A \cap B) \cup (A \cup B)$

Answer: C

View Text Solution

7. If A and B are two given sets, then $A \cap (B \cap B)^C$ is equal to

A. A

B. B

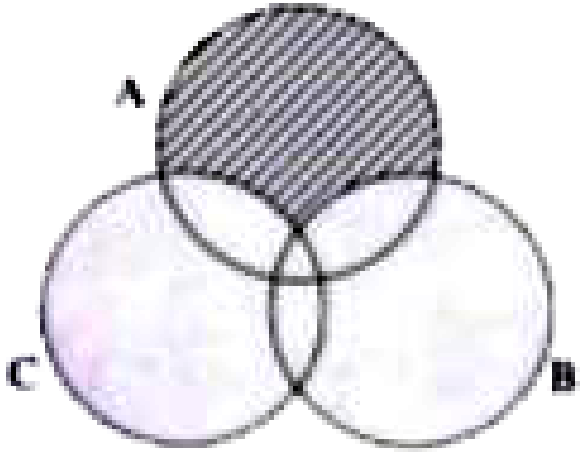
C. ϕ

D. $A \cap B^C$

Answer: D

View Text Solution

8. The shaded region in the given figure is



A. $A \cap (B \cup C)$

B. $A \cup (B \cap C)$

C. $A \cap (B - C)$

D. $A - (B \cup C)$

Answer: D

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9. Consider the following relations:

1. $A - B = A - (A \cap B)$

2. $A = (A \cap B) \cup (A - B)$

3. $A - (B \cup C) = (A - B) \cup (A - C)$

Which of these is/are correct ?

A. 1 and 3

B. 2 only

C. 2 and 3

D. 1 and 2

Answer: D

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10. The number of proper subsets of the set $\{1, 2, 3\}$ is

A. 8

B. 7

C. 6

D. 5

Answer: C

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