

course work?

Week 0

Week 1

Week 2

notation

Subsets - Part 1

Subsets - Part 2

Subsets - Part 3

sets - Part 1

sets - Part 2

sets - Part 3

sets - Part 1

Part 2

History

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Text Transcripts

Download Videos

No, the answer is incorrect.

Accepted Answers:

Score: 0

True

Summary

sets





Announcements

About the Course

Ask a Question

Progress Mentor

NPTEL » Discrete Mathematics

Unit 4 - Week 2 Course outline How does an NPTEL online Introduction to Set Theory Example, definition and Sets - Problems Part 1 Union and intersections of Union and intersections of Union and intersections of Union and intersections of Cardinality of Union of two Cardinality of Union of sets - Cardinality of Union of three Power Set - Part 1 Power set - Part 2 Power set - Part 3 Connection betwenn Binomial Theorem and Power Sets Power set - Problems Complement of a set De Morgan's Laws - Part 1 O De Morgan's Laws - Part 2 A proof technique De Morgan's Laws - Part 3 De Morgan's Laws - Part 4 Set difference - Part 1 Set difference - Part 2 Symmetric difference Quiz : Assignment 2 Week 2 Feedback

```
Assignment 2
                                                                                                                            Due on 2020-02-12, 23:59 IST.
The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.
1) Let A and B be two sets such that A-B=\left\{1,3,5,7,11\right\}, B-A=\left\{2,6,8\right\} and A\cap B=\left\{4,10\right\}, then the set A is equal to
                                                                                                                                                                 1 point
 {2, 4, 6, 8, 10}
 {1, 3, 4, 5, 7, 10, 11}
  \bigcirc {1, 2, 3, 4, 5, 6, 7, 8, 10, 11}
  Can not find A, as the information is insufficient.
No, the answer is incorrect.
Score: 0
Accepted Answers:
{1, 3, 4, 5, 7, 10, 11}
An empty set is denoted by Ø. Consider the following statements
                                                                                                                                                                 1 point
             A:\emptyset\in\emptyset
             B: \emptyset \subseteq \emptyset
  A is true, B is true

    A is true, B is false

    A is false, B is true

    A is false, B is false

No, the answer is incorrect.
Score: 0
Accepted Answers:
A is false, B is true
3) Let A, B be two sets and U be the universal set. Then A \cap (A \cup B)^C is
                                                                                                                                                                 1 point
  \bigcirc A
  \bigcirc U
 ○ A - B
No, the answer is incorrect.
Score: 0
Accepted Answers:
4) Let N and R denote the set of natural numbers and real numbers respectively. Which of the following is an example of disjoint sets?
                                                                                                                                                                 1 point
  A = \{x | x \in \mathbb{N} \text{ and } x \text{ is a multiple of 5} \} and B = \{x | x \in \mathbb{N} \text{ and } x \text{ is a multiples of 7} \}
  Set of natural numbers N and set of real numbers R
  S = \{ 	ext{ People having birth month January } \} and P = \{ 	ext{ People having birth year 1994 } \}
  M = \{x | x \in \mathbb{N} \text{ and } x \text{ is an Odd number } \} and N = \{x | x \in \mathbb{N} \text{ and } x \text{ is an even number } \}
No, the answer is incorrect.
Score: 0
Accepted Answers:
M = \big\{ x | x \in \mathbb{N} \text{ and } x \text{ is an Odd number} \big\} and N = \big\{ x | x \in \mathbb{N} \text{ and } x \text{ is an even number} \big\}
5) Let A and B be two sets such that |A|=10, |B|=8, |A\cup B|=14 , then |A \triangle B| is
                                                                                                                                                                 1 point
  18
  6
  O 10
 4
No, the answer is incorrect.
Score: 0
Accepted Answers:
6) Number of elements in set S = \{1 + (-1)^n | n \in \mathbb{N}\} is/are
                                                                                                                                                                 1 point
 01
 0
No, the answer is incorrect.
Accepted Answers:
7) Let A = \{1, \{1\}, \{2\}\}, then which of the following is an element of power set of A?
                                                                                                                                                                 1 point
 01
  ○ {2}
 ○ {1}
 {1, 2}
No, the answer is incorrect.
Score: 0
Accepted Answers:
{1}
8) Let U=\left\{1,2,3,4,a,b,c\right\} be the universal set and L=\left\{2,4,a,c\right\} be subset of U . Then, L^C is
                                                                                                                                                                 1 point
 (1, 3, 4, b)
 (1, 3, b)
 (1, 3, a, b)
  (1, 3, b, c)
No, the answer is incorrect.
Score: 0
Accepted Answers:
{1, 3, b}
9) Each student in a class of 100 plays at least one sport Football, Cricket or Tennis. 40 play Football and 30 play Tennis. 15 play Football
                                                                                                                                                                 1 point
    and Cricket, 10 play Cricket and Tennis and 8 play Football and Tennis. 3 students play all 3 sports. Find the number of students who play Cricket.
  60
  O 40
 ○ 50
  O 45
No, the answer is incorrect.
Score: 0
Accepted Answers:
State if the following statement is true or false.
                                                                                                                                                                 1 point
             (A \cup B) - (A \cap B) = (A - B) \cup (B - A)
  True
 False
```