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# Discrete Math Job Interview Preparation Guide.

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is an ordered collection of objects.

- a) Relation
- b) Function
- c) Set
- d) Proposition

#### Answer:-

c) Set

Read More Answers.

#### Question # 2

The set O of odd positive integers less than 10 can be expressed by \_\_\_

b) {1, 3, 5, 7, 9} c) {1, 2, 5, 9} d) {1, 5, 7, 9, 11}

Answer:b) {1, 3, 5, 7, 9}

#### Read More Answers.

#### Question #3

What is Discrete Math?

Discrete mathematics is the study of mathematical structures that are fundamentally discrete rather than continuous.

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#### Question #4

What is the Cartesian product of  $A = \{1, 2\}$  and  $B = \{a, b\}$ ?

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

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

c)  $\{(1, a), (2, a), (1, b), (2, b)\}$ 

d)  $\{(1, 1), (a, a), (2, a), (1, b)\}$ 

#### Answer:-

c)  $\{(1, a), (2, a), (1, b), (2, b)\}$ 

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#### Question #5

Power set of empty set has exactly \_\_\_\_\_ subset.

- b) Two
- c) Zero
- d) Three

### Answer:-

a) One

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#### Question # 6

The Cartesian Product B x A is equal to the Cartesian product A x B. Is it True or False?



a) True

#### b) False Answer:-

Let  $A = \{1, 2\}$  and  $B = \{a, b\}$ . The Cartesian product  $A \times B = \{(1, a), (1, b), (2, a), (2, b)\}$  and the Cartesian product  $B \times A = \{(a, 1), (a, 2), (b, 1), (b, 2)\}$ . This is not equal to A x B.

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#### Question #7

. less. What is the cardinality of the set of odd positive integers less than 10?

c) 3

d) 20

#### Answer:-

b) 5

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#### Question #8

Which of the following two sets are equal?

when of the following two sets at a A = {1, 2} and B = {1} b) A = {1, 2} and B = {1, 2, 3} c) A = {1, 2, 3} and B = {2, 1, 3} d) A = {1, 2, 4} and B = {1, 2, 3}

c)  $A = \{1, 2, 3\}$  and  $B = \{2, 1, 3\}$ 

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#### Question #9

What is the Cardinality of the Power set of the set  $\{0, 1, 2\}$ .

b) 6

c) 7 d) 9

#### Answer:-

a) 8

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#### Question # 10

The members of the set  $S = \{x \mid x \text{ is the square of an integer and } x < 100\}$  is \_

a) {0, 2, 4, 5, 9, 58, 49, 56, 99, 12}

b) {0, 1, 4, 9, 16, 25, 36, 49, 64, 81}

c) {1, 4, 9, 16, 25, 36, 64, 81, 85, 99} d) {0, 1, 4, 9, 16, 25, 36, 49, 64, 121}

#### Answer:-

b) {0, 1, 4, 9, 16, 25, 36, 49, 64, 81}

Read More Answers.

#### Question # 11

A function is said to be \_\_\_ \_\_\_\_\_, if and only if f(a) = f(b) implies that a = b for all a and b in the domain of f.

a) One-to-many

b) One-to-one

c) Many-to-many

d) Many-to-one

#### Answer:-

b) One-to-one

Read More Answers.

#### Question # 12

The set of positive integers is \_\_\_

a) Infinite

b) Finite

c) Subset

d) Empty

#### Answer:-

a) Infinite

Read More Answers.



# Question #13 The value of $aE\S1/2.aE\S5/2aE < aE < is$ b) 2 c) 3 d) 0.5 Answer:a) 1 Read More Answers. Question # 14 Which of the following function f: Z X Z >> Z is not onto? a) f(a, b) = a + bb) f(a, b) = ac) f(a, b) = |b|d) f(a, b) = a - bAnswer:c) f(a, b) = |b|Read More Answers. Question #15 The domain of the function that assign to each pair of integers the maximum of these two integers is \_ a) N b) Z c) Z + d) Z+ X Z+ Answer:d) Z+XZ+Read More Answers. Question # 16 Let f and g be the function from the set of integers to itself, defined by f(x) = 2x + 1 and g(x) = 3x + 4. Then the composition of f and g is \_ b) 6x + 7c) 6x + 6d) 6x + 8Answer:a) 6x + 9Read More Answers. Question # 17 \_ bytes are required to encode 2000 bits of data, a) 1 b) 2 c) 3 d) 8 Answer:b) 2 Read More Answers. Question # 18 The inverse of function f(x) = x3 + 2 is \_ a) f -1 (y) = (y - 2) 1/2 b) f -1 (y) = (y - 2) 1/3 c) f -1 (y) = (y) 1/3 d) f - 1(y) = (y - 2)Answer:b) f - 1(y) = (y - 2) 1/3Read More Answers. Question #19 The function f(x) = x3 is bijection from R to R. Is it True or False?

- a) True
- b) False

#### Answer:-

a) True

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Ougstion # 20
Question # 20 The g -1( $\{0\}$ ) for the function g(x)= $\hat{a}$ ŒŠx $\hat{a}$ Œ< is
a) $\{x \mid 0 \le x \le 1\}$
b) $\{x \mid 0 < x < 1\}$
c) {x   0 < x < 1} d) {x   0 <= x <= 1}
Answer:-
d) {x   0 <= x <= 1}
Read More Answers.
Question # 21
The function $f(x)=x+1$ from the set of integers to itself is onto. Is it True or False?
a) True b) False
Answer:-
a) True
Read More Answers.
Question # 22
The intersection of the sets $\{1, 2, 5\}$ and $\{1, 2, 6\}$ is the set
a) {1, 2} b) {5, 6}
c) {2, 5}
d) {1, 6}
Answer:-
a) {1, 2}
Read More Answers.
Question # 23
The union of the sets $\{1, 2, 5\}$ and $\{1, 2, 6\}$ is the set
a) {1, 2, 6, 1}
b) {1, 2, 5, 6} c) {1, 2, 1, 2}
d) {1, 5, 6, 3}
Answer:-
b) {1, 2, 5, 6}
Read More Answers.
Question # 24
Which of the following two sets are disjoint? a) {1, 3, 5} and {1, 3, 6}
b) {1, 2, 3} and {1, 2, 3}
c) {1, 3, 5} and {2, 3, 4} d) {1, 3, 5} and {2, 4, 6}
Answer:-
d) {1, 3, 5} and {2, 4, 6}
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Question # 25
Two sets are called disjoint if there is the empty set.
a) Union b) Difference
c) Intersection
d) Complement
Answer:-
c) Intersection
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Question # 26
The bit string for the set {2, 4, 6, 8, 10} (with universal set of natural numbers less than or equal to 10) is
a) 0101010101
b) 1010101010 c) 1010010101
d) 0010010101

Answer:-

a) 0101010101 Read More Answers.



Question # 27
The difference of $\{1, 2, 3\}$ and $\{1, 2, 5\}$ is the set
a) {1}
b) {5}
c) {3}
d) {2}
Answer:-
c) {3}
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Question # 28
Let $Ai = \{i, i+1, i+2,\}$ . Then set $\{n, n+1, n+2, n+3,\}$ is the of the set $Ai$ .
a) Union
b) Intersection
c) Set Difference
d) Disjoint
Answer:-
b) Intersection
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Question # 29
The complement of the set A is
a) A - B
b) U - A
c) A - U
d) B - A
Answer:-
b) U - A
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Question # 30
The bit strings for the sets are 1111100000 and 1010101010. The union of these sets is
a) 1010100000
b) 1010101101
c) 1111111100 ) 1111111100
d) 1111101010
Answer:-
d) 1111101010
d) 1111101010 Read More Answers.
d) 1111101010
d) 1111101010 Read More Answers.
d) 1111101010  Read More Answers.  Question # 31  The set difference of the set A with null set is a) A
d) 1111101010  Read More Answers.  Question # 31  The set difference of the set A with null set is a) A b) null
d) 1111101010  Read More Answers.  Question # 31  The set difference of the set A with null set is a) A b) null c) U
d) 1111101010  Read More Answers.  Question # 31  The set difference of the set A with null set is a) A b) null
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# Read More Answers. Question # 34

During given week a programmer spend 1/4 of his time preparing charts,3/8 of his time for coding,rest of his time for debugging the programs. If he had 48 hrs during the week how many hours did he spend debugging the program?

No devices use for measuring in math.



#### Answer:-

18hrs.

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#### Question #35

If a 16 story building has 12000ft on each floor. Company A rents 7 floors and company B rents 4 floors. What is the number of square feet of unrented floor space?

#### Answer:-

60000 sqft.

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#### Question #36

A man owns 2/3 of a computer service buroue business and sells 3/4 of his share for \$75000. What is the value of the business?

#### Answer:-

150,000.

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#### Question # 37

Computer printer produces 176400 lines in a given day. If the printer is in operation for 7 hrs during the day how many lines did it print per minute?

#### Answer:-

420.

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#### Question #38

If a 12 shell cupboard requires 18 ft of wall space then how much wall space would a 30 cup shelf require?

#### Answer:-

45.

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#### Question #39

A computer tape library there are two racks with 40 tapes per rack. In a given day 30 tapes are in use. What fraction remains in the rack?

#### Answer:

5/8

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#### Question # 40

In what ways do you use math in your daily life Sam?

#### Answer:-

Since I am at college to study mathematics I would say that my daily life revolves around mathematics.

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#### Question # 41

In certain company 20% of the men and 40% of the women attended the annual company picnic. If 35% of all the employees are men . What % of all the employee went to the picnic?

#### Answer:-

33%.

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#### Question # 42

In normal distribution, approximately what percentage of the cases, to the nearest whole number, falls within 4 standard deviations of the mean?

#### Answer:-

100%

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# Question # 43

Converse of this theorem is: if the sum of the squares of two sides of a triangle equal the square of the third side then the triangle is a right triangle. What is the name of the theorem?

#### Answer:-

Pythagorean Theorem.

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#### Question # 44

If card punch operator can process 80 cards in half an hour How many cards can this process in 7hr 30min?

1200.

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#### Question # 45

Give range for the following six values 2, 7, 11, 19, 25, 33:

#### Answer:-

31.

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#### Question # 46

,uara How many numbers must be selected from the set {1, 2, 3, 4, 5, 6} to guarantee that at least one pair of these numbers add up to 7? 1 point

#### Answer:-

No Answer is Posted For this Question

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