

Discrete Math Job Interview Questions And Answers



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Discrete Math Interview Questions And Answers Guide.

Question - 1:

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

Ans:

31.

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Question - 2:

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

Ans:

1200.

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Question - 3:

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?

Ans:

Pythagorean Theorem.

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Question - 4:

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

Ans:

100%

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Question - 5:

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?

Ans:

33%.

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Question - 6:

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

Ans:

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

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Question - 7:

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?

Ans:

5/8

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**Question - 8:**

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

Ans:

45.

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Question - 9:

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?

Ans:

420.

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Question - 10:

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

Ans:

150,000.

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Question - 11:

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?

Ans:

60000 sqft.

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Question - 12:

During given week a programmer spend $\frac{1}{4}$ of his time preparing charts, $\frac{3}{8}$ 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?

Ans:

18hrs.

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Question - 13:

What types of tools or measuring devices do you use related to math?

Ans:

No devices use for measuring in math.

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Question - 14:

What types of math do you use? Re: Calculus, Algebra, Fractions?

Ans:

Every type. I am in calculus right now and it uses every time of mathematics that I have leaned previously.

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Question - 15:

The set difference of the set A with null set is _____.

- a) A
- b) null
- c) U
- d) B

Ans:

a) A

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Question - 16:

The bit strings for the sets are 1111100000 and 1010101010. The union of these sets is _____.

- a) 1010100000
- b) 1010101101
- c) 1111111100
- d) 1111101010

Ans:

d) 1111101010

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Question - 17:

The complement of the set A is _____.

- a) $A - B$
- b) $U - A$
- c) $A - U$
- d) $B - A$

Ans:

- b) $U - A$

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Question - 18:

Let $A_i = \{i, i+1, i+2, \dots\}$. Then set $\{n, n+1, n+2, n+3, \dots\}$ is the _____ of the set A_i .

- a) Union
- b) Intersection
- c) Set Difference
- d) Disjoint

Ans:

- b) Intersection

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Question - 19:

The difference of $\{1, 2, 3\}$ and $\{1, 2, 5\}$ is the set _____.

- a) $\{1\}$
- b) $\{5\}$
- c) $\{3\}$
- d) $\{2\}$

Ans:

- c) $\{3\}$

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Question - 20:

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

Ans:

- a) 0101010101

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Question - 21:

Two sets are called disjoint if there _____ is the empty set.

- a) Union
- b) Difference
- c) Intersection
- d) Complement

Ans:

- c) Intersection

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Question - 22:

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 $\{2, 4, 6\}$

Ans:

- d) $\{1, 3, 5\}$ and $\{2, 4, 6\}$

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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) $\{1, 5, 6, 3\}$

Ans:



b) {1, 2, 5, 6}

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Question - 24:

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}

Ans:

a) {1, 2}

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Question - 25:

The function $f(x)=x+1$ from the set of integers to itself is onto. Is it True or False?

- a) True
- b) False

Ans:

a) True

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Question - 26:

The $g^{-1}(\{0\})$ for the function $g(x) = \sin x$ is _____.

- a) $\{x \mid 0 \leq x < 1\}$
- b) $\{x \mid 0 < x \leq 1\}$
- c) $\{x \mid 0 < x < 1\}$
- d) $\{x \mid 0 \leq x \leq 1\}$

Ans:

d) $\{x \mid 0 \leq x \leq 1\}$

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Question - 27:

The function $f(x) = x^3$ is bijection from \mathbb{R} to \mathbb{R} . Is it True or False?

- a) True
- b) False

Ans:

a) True

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Question - 28:

The inverse of function $f(x) = x^3 + 2$ 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) $f^{-1}(y) = (y - 2)$

Ans:

b) $f^{-1}(y) = (y - 2)^{1/3}$

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Question - 29:

_____ bytes are required to encode 2000 bits of data,

- a) 1
- b) 2
- c) 3
- d) 8

Ans:

b) 2

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Question - 30:

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 _____.

- a) $6x + 9$
- b) $6x + 7$
- c) $6x + 6$
- d) $6x + 8$

Ans:



a) $6x + 9$

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Question - 31:

The domain of the function that assign to each pair of integers the maximum of these two integers is _____.

- a) \mathbb{N}
- b) \mathbb{Z}
- c) \mathbb{Z}^+
- d) $\mathbb{Z} \times \mathbb{Z}^+$

Ans:

d) $\mathbb{Z} \times \mathbb{Z}^+$

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Question - 32:

Which of the following function $f: \mathbb{Z} \times \mathbb{Z} \rightarrow \mathbb{Z}$ is not onto?

- a) $f(a, b) = a + b$
- b) $f(a, b) = a$
- c) $f(a, b) = |b|$
- d) $f(a, b) = a - b$

Ans:

c) $f(a, b) = |b|$

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Question - 33:

The value of $\frac{1}{2} \cdot \frac{5}{2}$ is _____.

- a) 1
- b) 2
- c) 3
- d) 0.5

Ans:

a) 1

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Question - 34:

The set of positive integers is _____.

- a) Infinite
- b) Finite
- c) Subset
- d) Empty

Ans:

a) Infinite

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Question - 35:

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

Ans:

b) One-to-one

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Question - 36:

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) $\{0, 1, 4, 9, 16, 25, 36, 49, 64, 121\}$

Ans:

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

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Question - 37:

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

- a) 8
- b) 6



- c) 7
- d) 9

Ans:

- a) 8

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Question - 38:

Which of the following two sets are equal?

- 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 $B = \{1, 2, 3\}$

Ans:

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

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Question - 39:

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

- a) 10
- b) 5
- c) 3
- d) 20

Ans:

- b) 5

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Question - 40:

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

- a) True
- b) False

Ans:

- b) False

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 $A \times B$.

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Question - 41:

Power set of empty set has exactly _____ subset.

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

Ans:

- a) One

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Question - 42:

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

Ans:

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

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Question - 43:

What is Discrete Math?

Ans:

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

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Question - 44:

The set O of odd positive integers less than 10 can be expressed by _____ .

- a) $\{1, 2, 3\}$
- b) $\{1, 3, 5, 7, 9\}$



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

Ans:

- b) {1, 3, 5, 7, 9}

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Question - 45:

A _____ is an ordered collection of objects.

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

Ans:

- c) Set

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