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Discrete Mathematics MCQ Quiz

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Below is the few **Discrete mathematics MCQ** test that checks your basic knowledge of Discrete mathematics. This **Discrete mathematics Test** contains around 20 questions of multiple choice with 4 options. You have to select the right answer to a question.

Q1. Which of the following is the set of positive integers?

- **A. Infinite**
- B. Subset
- C. Finite
- D. Empty

Q2. Which of the following is union of $\{1, 2, 5\}$ and $\{1, 2, 6\}$?

- **A. $\{1, 2, 5, 6\}$**
- B. $\{1, 2, 6, 1\}$
- C. $\{1, 2, 1, 2\}$
- D. $\{1, 5, 6, 3\}$

Q3. Which of the following is complement of the set A?

- A. $A - U$
- B. $A - B$
- **C. $U - A$**
- D. $B - A$

Q4. The relation between sets A, B, C as shown by venn diagram is

- A. A is subset of B and B is subset of C
- **B. C is subset of B and B is subset of A**
- C. C is not a subset of A and A is subset of B
- D. None of These

Q5. Which of the following statement is false?

- A. $A \cap A = A$
- **B. $(A \cup B)' = A' \cup B'$**
- C. $A \cup A = A$
- D. $A - (B \cap C) = (A - B) \cup (A - C)$

Q6. If a set contains 3 elements then the number of subsets are?

- A. 3
- B. 6
- **C. 8**
- D. 12

Q7. How many bytes are required to encode 2000 bits of data?

- A. 16
- B. 8
- **C. 2**
- D. 32

Q8. Floor (2.4) + Ceil (2.9) is equal to

- A. 4
- **B. 5**
- C. 6.3
- D. 7

Q9. Which of the following is a collection of graph?

- A. Row and column
- **B. Vertices and columns**
- C. Equation

- D. None of above

Q10. Which of the following is a error correcting code?

- A. Error deducting code
- **B. Hamming code**
- C. Gray code
- D. None of the above

Q11. The set of positive integers under the operation of ordinary multiplication is

- A. Not a monoid
- B. A group
- C. Not a group
- **D. An Abelian group**

Q12. The number of eight-bit strings beginning with either 111 or 101 is -

- **A. 64**
- B. 128
- C. 256
- D. 312

Q13. Let A and B be two arbitrary events, then

- A. $P(A \cup B) = P(A) + P(B)$
- B. $P(A \cap B) = P(A)P(B)$
- **C. $P(A \cup B) = P(A) + P(B)$**
- D. $P(A/B) = P(A \cap B) + P(B)$

Q14. . The sum of square of the first n natural numbers is given by

- A. $n(n-1)/2(2n+1)$
- **B. $n(n+1)(2n+1)/6$**
- C. $n^2(n+1)(2n+1)/6$
- D. None of these

Q15. The sequence 1, 1, 1, 1, 1.... is?

- **A. Not absolutely summable**
- B. Absolutely summable
- C. Can't say
- D. None of These

Q16. The sequence 1, 1, 1, 1, 1.... is?

- **A. Not absolutely summable**
- B. Absolutely summable
- C. Can't say
- D. None of These

Q17. Which of the following is cardinality of the set $A = \{1, 2, 3, 4, 6\}$?

- A. 4
- **B. 5**
- C. 6
- D. 3

Q18. A matrix having many rows and one column is known as -

- A. Diagonal matrix
- B. Row matrix
- **C. Column matrix**
- D. None of the above

Q19. Let A order $(a \times b)$ and B order $(c \times d)$ be two matrices, then if AB exists, the order of AB is?

- A. $b \times c$
- **B. $a \times d$**
- C. $a \times b$
- D. $c \times d$

Q20. If determinant of a matrix A is Zero then

- A. A is a non-Singular matrix
- **B. A is a Singular matrix**
- C. Can't say
- D. None of These

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