1. Discrete Mathematics is a branch of mathematics involving discrete elements that uses?

A. algebra   
B. arithmetic  
C. Both A and B  
D. None of the above

View Answer

Ans : C

Explanation: Discrete Mathematics is a branch of mathematics involving discrete elements that uses algebra and arithmetic.

2. Discrete objects are those which are separated from (not connected to/distinct from) each other.

A. TRUE  
B. FLASE  
C. MAY BE  
D. CAN'T SAY

View Answer

Ans : A

Explanation: Discrete objects are those which are separated from (not connected to/distinct from) each other.

3. Which of the following can be consider as discrete objects?

A. Integers  
B. Rational numbers  
C. people  
D. All of the above

View Answer

Ans : D

Explanation: Integers (aka whole numbers), rational numbers (ones that can be expressed as the quotient of two integers), automobiles, houses, people etc. are all discrete objects.

4. Real numbers which include irrational as well as rational numbers are not discrete?

A. Real numbers which include irrational are discrete  
B. rational numbers are discrete  
C. TRUE  
D. FALSE

View Answer

Ans : C

Explanation: Real numbers which include irrational as well as rational numbers are not discrete.

5. In how many categories, Mathematics can be broadly classified into?

A. 2  
B. 3  
C. 4  
D. 5

View Answer

Ans : A

Explanation: Mathematics can be broadly classified into two categories : Continuous Mathematics and Discrete Mathematics.

6. Which of the following involves distinct values i.e. between any two points?

A. Continuous Mathematics  
B. Non-Continuous Mathematics  
C. Non-Discrete Mathematics  
D. Discrete Mathematics

View Answer

Ans : D

Explanation: Discrete Mathematics − It involves distinct values; i.e. between any two points, there are a countable number of points.

7. Which of the following statement is a proposition?

A. Get me a glass of milkshake  
B. God bless you!  
C. What is the time now?  
D. The only odd prime number is 2

View Answer

Ans : D

Explanation: Only this statement has got the truth value which is false.

8. Which of the following option is true?

A. If the Sun is a planet, elephants will fly  
B. 3 +2 = 8 if 5-2 = 7  
C. 1 > 3 and 3 is a positive integer  
D. -2 > 3 or 3 is a negative integer

View Answer

Ans : A

Explanation: Hypothesis is false, thus the whole statement is true.

9. Which of the following bits is the negation of the bits “010110”?

A. 111001  
B. 101101  
C. 101001  
D. 111111

View Answer

Ans : C

Explanation: Flip each of the bit to get the negation of the required string.

10. How many bits string of length 4 are possible such that they contain 2 ones and 2 zeroes?

A. 4  
B. 5  
C. 6  
D. 7

View Answer

Ans : C

Explanation: The strings are {0011, 0110, 1001, 1100, 1010 and 0101}.