Discrete Mathematics Unit 1 MCQs

* Re	equired
* Th	is form will record your name, please fill your name.
	Vrite set {1, 5, 15, 25,} in set-builder form. * 1 Point)
($\{x: either x=1 or x=5n, where n is a real number\}$
({x: either x=1 or x=5n, where n is a integer}
($\{x: either x=1 \text{ or } x=5n, \text{ where n is an odd natural number}\}$
({x: x=5n, where n is a natural number}
	Convert set {x: x is a positive prime number which divides 72} in roster form. * 1 Point)
({2, 3, 5}
({2, 3, 6}
(2 , 3}
(○ {Ø}
(Option 2

3. Express $\{x: x= n/(n+1), n \text{ is a natural number less than 7} \}$ in roster form. * (1 Point)			
(1/2, 2/3, 4/5, 6/7)			
(1/2, 2/3, 3/4, 4/5, 5/6, 6/7, 7/8)			
(1/2, 2/3, 3/4, 4/5, 5/6, 6/7)			
○ Infinite set			
4. What is the Cardinality of the Power set of the set {0, 1, 2}? * (1 Point)			
○ 8			
○ 6			
○ 7			
○ 9			
5. In Question number 6 How many American tourist visited none of the following three countries: Columbia Argentina and Brazil * (1 Point)			
○ 7			
○ 2			
O 9			

 In Question number 6 How many American tourists visited Brazil but not Argentina or Columbia * (1 Point) 		
O 7		
○ 2		
7. In Question number 15 How many students take Math, but not Biology or English? * (2 Points)		
O 17		
○ 7		
<u> </u>		
8. Roll Number *		

 9. There are 100 students surveyed and asked which of the following subjects they take this semester: Mathematics, English or Biology. Below is the result of the survey. a. 35 responded English b. 50 responded Mathematics c. 29 responded Biology d. 12 responded Mathematics and English e. 8 responded English and Biology f. 11 responded Biology and math g. 5 responded all
How many students are not taking any of the three subjects? * (2 Points)
O 14
<u> </u>
<u> </u>
10. The members of the set $S = \{x \mid x \text{ is the square of an integer and } x < 100\}$ is
(1 Point)
(0, 2, 4, 5, 9, 58, 49, 56, 99, 12)
(0, 1, 4, 9, 16, 25, 36, 49, 64, 81)
(1, 4, 9, 16, 25, 36, 64, 81, 85, 99)
(0, 1, 4, 9, 16, 25, 36, 49, 64, 121)

11	Let a set $E = \{0,2,4,6,8\}$ of non-negative even numbers and $O = \{1, 3, 5, 7, 9,\}$ of non-negative odd numbers then? * (1 Point)
	Cardinality of set E is greater than that of O
	Cardinality of set O is greater than that of E
	Cardinality of set E is equal to that of O
	None of the mentioned
12	. If cardinality of (A U B) = cardinality of A+ cardinality of B. This means * (1 Point)
	A is a subset of B
	B is a subset of A
	A and B are disjoint
	O None of the mentioned

13	American countries: Argentina, Brazil and Columbia. 35 tourists have visited Argentina. 34 tourists have visited Brazil. 19 tourists have visited Columbia. 5 tourists have visited Argentina and Columbia 11 tourists have visited Argentina and Brazil. 12 tourists have visited Argentina, Brazil and Columbia Everyone who visited Columbia also visited at least one of the following two countries Argentina and Brazil a. How many American tourists visited Argentina but not Brazil or Columbia * (1 Point)
	O 7
	O 9
	O 2
	<u> </u>
14	. If A is a subset of B and B is a subset of C, then cardinality of A U B U C is equal to
	(1 Point)
	Cardinality of C
	Cardinality of B
	Cardinality of A
	None of the mentioned

15. A = $\{\emptyset, \{\emptyset\}, 2, \{2,\emptyset\}, 3\}$, which of the following is true? * (1 Point)			
$\bigcirc \ \{\{\emptyset, \{\emptyset\}\} \in A$			
\bigcirc Ø \subset A			
3 ⊂ A			
16. In Question number 15 How many students take Math and English , but not Biology? * (2 Points)			
<u> </u>			
O 7			
O 9			
17. In Question number 6 How many American tourists visited Brazil and Columbia but no Argentina ? * (1 Point)			
O 9			
O 7			
<u> </u>			

18.	(1 Point)	_ subset. ^	
	One		
	○ Two		
	○ Zero		
	○ Three		
19. Name *			

This content is neither created nor endorsed by Microsoft. The data you submit will be sent to the form owner.

Microsoft Forms

12/14/2020