بسم اللہ الرحمن الرحیم

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اسلام علیکم:

امید کرتا ہوں سب خیریت سے ہوں گے۔ آنے والے تمام نیو طالب علم کو میں ورچوئل یونیورسٹی آف پاکستان میں خوش آمدید کرتا ہوں۔

اگر کسی سٹوڈنٹ کو کسی بھی قسم کی ہیلپ چاہے ہو تو ہم سے رابطہ کر سکتا ہے جیسا کہ: پاسٹ پیپرز، کورس سلیکشن، پروجیکٹ سلیکشن، ڈیٹ شیٹ، فیس پے اور چینج سٹڈی پروگرام وغیرہ۔

اگر کوئی سٹوڈنٹ کسی مجبوری کی وجہ سے یا جاب ہولڈر ہونے کی وجہ سے اپنا ایل ایم ایس خود ہینڈل نہیں کر سکتا تو وہ ہم سے پیڈ سروس حاصل کر سکتا ہے کوشش کرے کے آپ ہر چیز خود اٹیمپٹ کریں اگر نہیں کر سکتے تو سروس حاصل کریں۔

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انشاءاللہ آپ ہماری سروس سے مطمئن ہوں گے۔

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مزید اگر کسی رہنمائی کی ضرورت ہو تو وہ رابطہ کر سکتا ہے۔

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If You Found any mistake then inform Us

MTH202:Grand Quiz

Quiz Start Time: 12

Question # 1 of 30 (Start time: 12:58:45 PM, 22 June 2021)

If R is transitive then the inverse relation will be transitive.

Select the correct option

- (●) true
- ( ) false

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Quiz Start Time: 12

Question # 2 of 30 (Start time: 12:59:08 PM, 22 June 2021)

Let A = {p, q, r, s} and define a relation R on A by R = {(p, p), (p, r), (q, r), (q, s), (r, s)} Then which one of the following is the correct statement about R :

Select the correct option

- R is not reflexive
- R is symmetry
- R is reflexive
- R is transitive

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Question # 3 of 30 (Start time: 12:59:27 PM, 22 June 2021)

The disjunction p v q is False when -------

Select the correct option

- p is False, q is True.
- p is True, q is True.
- p is True, q is False.
- p is False, q is False.

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Quiz Start Time:

Question # 4 of 30 (Start time: 12:59:42 PM, 22 June 2021)

The number of elements in A ×B are ..... if A is a set with '5' elements and B is a set with '4' elements.

Select the correct option

- 20 *VU KMS* *Whatsapp:* 03066295623
- 0
- 1
- 9



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Quiz Start Time: 1

Question # 5 of 30 (Start time: 01:00:00 PM, 22 June 2021)

Negation of 1 < x < 8 is ---------- .

Select the correct option

- 1 > x XOR x > 8
- 1 > x OR x < 8
- 1 > x AND x > 8
- 1 > x OR x > 8

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Quiz Start Time: 12

Question # 6 of 30 (Start time: 01:00:15 PM, 22 June 2021)

(p v ~ p) is the ----------

Select the correct option

- ○ Contradiction
- ○ Contingency
- ● Tautology
- ○ Conjunction

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Question # 7 of 30 (Start time: 01:00:33 PM, 22 June 2021)

The inverse of the statement 'If it is hot day, then I am at home' is ---------

Select the correct option

○	If it is hot, then I am Not at home.
●	If it is Not hot, then I am Not at home.
○	If I am at home, then it is hot.
○	If it is Not hot, then I am at home.

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Question # 8 of 30 (Start time: 01:00:51 PM, 22 June 2021)

The domain of a relation R from A to B is symbolically written as:

Select the correct option

- ● D(R) = {a belongs to A such that (a,b) belongs to R}
- ○ D(R) = {a belongs to B such that (a,b) belongs to R}

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Question # 9 of 30 (Start time: 01:01:11 PM, 22 June 2021)

Let R be a binary relation on a set A.R is anti-symmetric iff _____.

Select the correct option

- a, b ∈A if (a,b) ∈R and (b,a) ∈R then a ≠ b
- a, b ∈A if (a,b) ∈R and (b,a) ∈R then a = b
- a, b ∈A if (a,b) ∈R and (b,a) ∈R then a = b
- None of the above

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Question # 10 of 30 (Start time: 01:01:27 PM, 22 June 2021)

Negation of $2 < x < 3$ is ----------

Select the correct option

- ○ $2 > x$ XOR $x > 3$
- ○ $2 > x$ OR $x < 3$
- ● $2 > x$ OR $x > 3$
- ○ $2 > x$ AND $x > 3$

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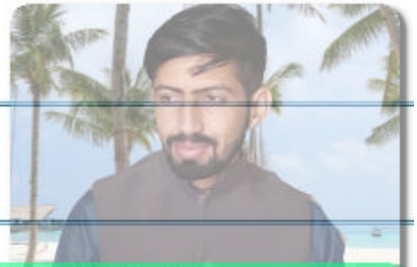
Question # 11 of 30 (Start time: 01:01:43 PM, 22 June 2021)

In conditional statement p → q, the statement p is called.....

Select the correct option

- ○ Tautology
- ● Hypothesis
- ○ None of these.
- ○ Conclusion

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Question # 12 of 30 (Start time: 01:01:59 PM, 22 June 2021)

Which of the following is the comprehensive answer of sentence x+2 = 4?

Select the correct option

- It is a true proposition/statement.
- It is not a proposition/statement.
- It is a proposition/statement.
- It is a false proposition/statement.

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Question # 13 of 30 (Start time: 01:02:36 PM, 22 June 2021)

Let p = I am hard working, then ~(~p) represents ---------- .

Select the correct option

- It is not that I am hard working
- I am hard working
- I am not hard working
- None of these

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Question # 14 of 30 (Start time: 01:02:52 PM, 22 June 2021)

In the digital circuits. ON represents --------

Select the correct option

- None of these.
- False or 0
- Both
- True or 1

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Quiz Start Time: 1

Question # 15 of 30 (Start time: 01:03:08 PM, 22 June 2021)

The Set of natural numbers is equal to _____.

Select the correct option

- ○ The set of non negative integers
- ● The set of positive integers
- ○ The set of positive real numbers
- ○ The set of positive rational integers

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Question # 16 of 30 (Start time: 01:03:46 PM, 22 June 2021)

There is atleast one loop in the graph of an irreflexive relation.

Select the correct option

○	True
●	False

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Quiz Start Time: 12

Question # 17 of 30 (Start time: 01:04:02 PM, 22 June 2021)

The switches in parallel act just like _____.

Select the correct option

- (●) OR gate
- ( ) XOR gate
- ( ) AND gate
- ( ) NOT gate

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Question # 18 of 30 (Start time: 01:04:25 PM, 22 June 2021)

If a function $(g \circ f)(x) : X \to Z$ is defined as $(g \circ f)(x) - g(f(x))$ for all $x \in X$. Then the function ____ is known as composition of f

Select the correct option

Rel

- ○ $f^{-1}(g(x))$
- ● $(g \circ f)$
- ○ $g^{-1}(f(x))$
- ○ $(f \circ g)$

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Question # 19 of 30 (Start time: 01:04:44 PM, 22 June 2021)

Let A be subset of universal set U thendoublecomplementlawis

Select the correct option

Rel

- $(A^c)^c = U - A$
- $(A^c)^c = U$
- $(A^c)^c = \phi$
- $(A^c)^c = A$

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Question # 20 of 30 (Start time: 01:05:00 PM, 22 June 2021)

If A = {1,4,6} and B = { 1,4,5,7} then:

Select the correct option

- ○ None of these
- ○ A is subset of B
- ● A is not subset of B
- ○ B is superset of A

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Question # 21 of 30 (Start time: 01:05:14 PM, 22 June 2021)

Which of the followings is the truth value of compound statement, If 6+7=13, then 5+2=6.

Select the correct option

- ● False
- ○ True

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Question # 22 of 30 (Start time: 01:05:26 PM, 22 June 2021)

An infinite sequence may have only a finite number of values.

Select the correct option

- ○ False
- ● True

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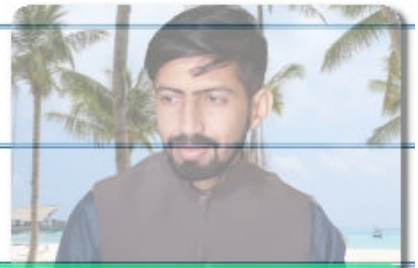
Question # 23 of 30 (Start time: 01:05:38 PM, 22 June 2021)

Neither it is raining, nor it is cloudy. In the logical sentences, it can be written as -------

Select the correct option

- ● ~p ^ ~q
- ○ p v ~q
- ○ p ^ q
- ○ ~p v ~q

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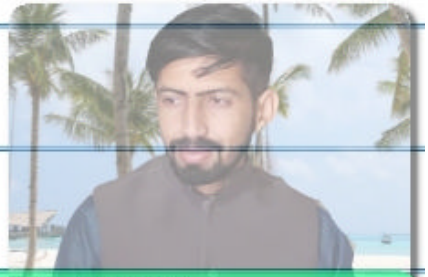
Question # 24 of 30 (Start time: 01:05:55 PM, 22 June 2021)

Let t be tautology. then ~ (~ t) is ---------

Select the correct option

- ● t
- ○ ~ t
- ○ None
- ○ c. (where c is contradiction.)

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Question # 25 of 30 (Start time: 01:06:33 PM, 22 June 2021)

If p= T and q=T, then ~p →~q = _____.

Select the correct option

Rele

F

T

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Question # 26 of 30 (Start time: 01:06:48 PM, 22 June 2021)

p <--> q is true when ---------

Select the correct option

- p is True, q is False.
- p is False, q is True.
- only p is True.
- p is False, q is False.



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Question # 27 of 30 (Start time: 01:07:06 PM, 22 June 2021)

The _____ of the terms of a sequence forms a series.

Select the correct option

- (●) Sum

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- ( ) Multiplication



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Question # 28 of 30 (Start time: 01:07:24 PM, 22 June 2021)

Common ration in sequence "36, 12, 4, 4/3,....." is .....

Select the correct option

○	1/4
○	3
○	4
●	1/3

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Question # 29 of 30 (Start time: 01:07:37 PM, 22 June 2021)

Let A be subset of universal set U then $A \cap A^c =$

Select the correct option

Re

○	A
●	ϕ
○	$A \cup A^c$
○	U

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Question # 30 of 30 (Start time: 01:07:53 PM, 22 June 2021)

The matrix representation of an inverse relation can be obtained by taking the .....of the relational matrix.

Select the correct option

- Determinant
- adjoint
- inverse
- transpose

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