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Virtual University of Pakistan

FINALTERM EXAMINATION
MTH001- Elementary Mathematics

Ref No: 1735901
Time: 90 min
Marks: 60

Student Info	
Student ID:	
Center:	
Exam Date:	

For Teacher's Use Only

Q No.	1	2	3	4	5	6	7	8	Total
Marks									
Q No.	9	10	11	12	13	14	15	16	
Marks									
Q No.	17	18	19	20	21	22	23	24	
Marks									
Q No.	25	26	27	28	29	30	31	32	
Marks									
Q No.	33	34	35	36	37	38	39		
Marks									

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Question No: 1   (Marks: 1) - Please choose one

Tabulation means, the process of arranging the data into
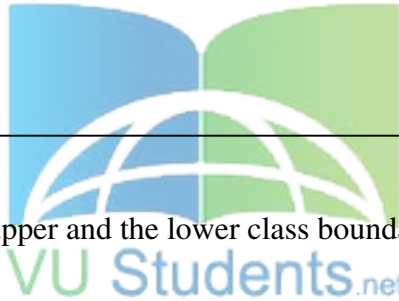
    Different classes

    Rows

    Columns

    Rows and Columns

Question No: 2   (Marks: 1) - Please choose one

The difference between the upper and the lower class boundaries of a class are known as:

    Class Marks

    Class Interval

    Class frequency

Question No: 3   (Marks: 1) - Please choose one

For the given data 2, 3, 7, 0,-8 G.M will be

    Negative

    Positive

    zero

Question No: 4   (Marks: 1) - Please choose one

The graph of cumulative frequency is called

Histogram

Frequency polygon

Ogive

Question No: 5   (Marks: 1) - Please choose one

The probability of sure event is

0

1

0.5

Question No: 6   (Marks: 1) - Please choose one

The probability of an event always lies between:

-1 & +1

-1 & 0

0 & 1   http://www.vustudents.net

Question No: 7   (Marks: 1) - Please choose one

The probability of vowel letters from the word STATISTICS is

    2/10

    3/10

    0

    10/10

Question No: 8   (Marks: 1) - Please choose one

$P(\text{ A or B }) = P(A) + P(B)$, if A & B are

    Mutually exclusive events

    Independent events

    Not mutually exclusive events

Question No: 9   (Marks: 1) - Please choose one

$\varnothing \in \{x\}$

    True

    False

Question No: 10   (Marks: 1) - Please choose one

Variance is the square root of standard deviation.

True

False

Question No: 11   (Marks: 1) - Please choose one

_____

Smoking habits of the residents of an area are

Quantitative

Qualitative

Question No: 12   (Marks: 1) - Please choose one

_____

Results obtained by counting are

Discrete data

Continuous data

Question No: 13   (Marks: 1) - Please choose one

_____

The geometric mean of 2,8,4 is

2

4

8

0

Question No: 14   (Marks: 1) - Please choose one

Let $A = \{x : x \in N, 4 + x = 3\}$ where N is the set of natural numbers.
Which of the following is tabular form of A ?

{ }

{1}

{-1}

{3, 4}

Question No: 15   (Marks: 1) - Please choose one

a% of b is b% of

a

100a

$\dfrac{a}{100}$

$\dfrac{b}{100}$

Question No: 16   (Marks: 1) - Please choose one

The text concatenation operator is used to

combine two text strings.

include ":" and ","

calculate exponentiation: ^

make comparisons.

Question No: 17   (Marks: 1) - Please choose one

_____

In a symmetric distribution

The mean, median, and mode are equal

The mean is the largest measure of location

The median is the largest measure of location

The standard deviation is the largest value

Question No: 18   (Marks: 1) - Please choose one
_____

When two coins are tossed simultaneously, the probabilty of at least one head is _____.

1/4

3/4

1/2

1

Question No: 19   (Marks: 1) - Please choose one

For two mutually exclusive events A and B, P (A) = 0.2 and P (B) = 0.4, then P (A U B) = ----------.

   0.8

   0.2

   0.6

   0.52

Question No: 20   (Marks: 1) - Please choose one

$A = [1\ 1\ 1\ 1]$ is an example of

   Row matrix .

   Column matrix.

   Square matrix .

   Identity matrix.

Question No: 21   (Marks: 1) - Please choose one

When a scalar k is multiplied with any matrix then

   k is multiplied with each row of that matrix.

k is multiplied with each column of that matrix.

k is multiplied with all elements of that matrix .

None of these.

Question No: 22   (Marks: 1) - Please choose one

0.20 % = ……………

0.020

0.0020

0.00020

0.000020

Question No: 23   (Marks: 1) - Please choose one

20 m long rope is cut to the length of 15m. what is percenrage decrease?

25%

33.3%

40%

45%

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Question No: 24   (Marks: 1) - Please choose one

If the Amount of Annuity is 10,000 Rs and Accumulation Factor is 26.24, what will be Accumulation Value?

26240

262400

2624000

2624.0

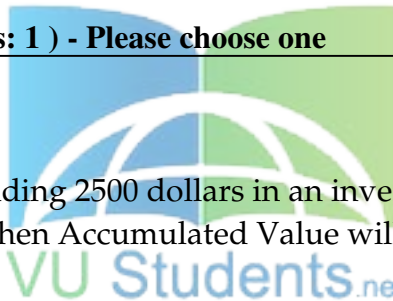**Question No: 25   (Marks: 1) - Please choose one**

Suppose that you are spending 2500 dollars in an investment and Accumulated factor is 20 then Accumulated Value will be ……….

20000

30000

40000

50000

Question No: 26   (Marks: 1) - Please choose one

Monthly installments of a leased car are calculated by using the techniques of ………………..
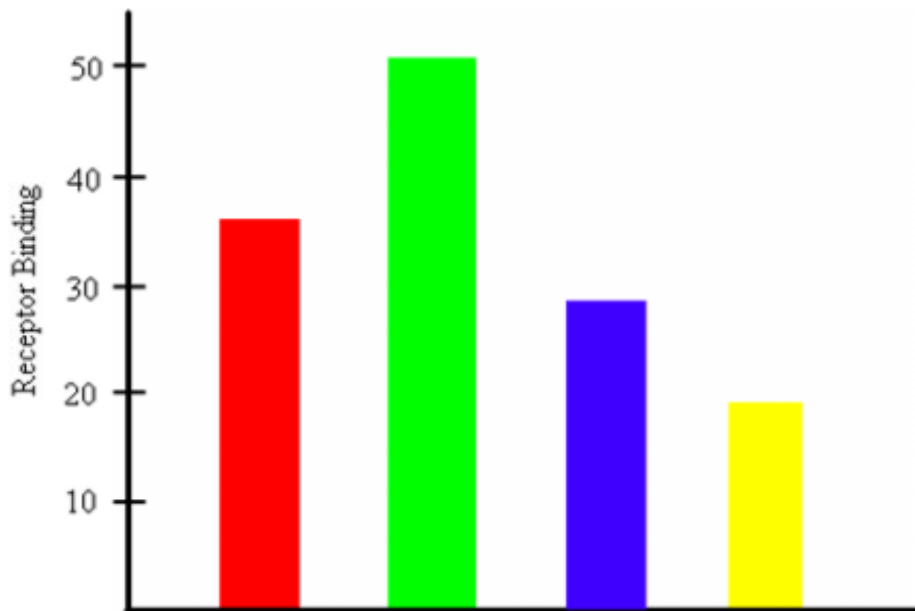
Simple interest method

Compound interest method

Annuity

Hit & trial method

Question No: 27   (Marks: 1) - Please choose one

The chart below is a …..graph.

Pie

Bar

Line

quadratic

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Question No: 28   (Marks: 1) - Please choose one

The arrow "↔" is the **conditional operator.**

> True
>
> **False**

Question No: 29   (Marks: 1) - Please choose one

> **True**
>
> False

> True
>
> **False**

How many 3-digit numbers can be formed by using each one of the digits 2,3,5,7,9 only once?

Question No: 32   (Marks: 2)

Find Geometric Mean of 2, 4 and 8.

Question No: 33 (Marks: 2)

List price of a shirt is Rs 450. If the discount rate is 20%, calculate the discount amount of the shirt.

Question No: 34 (Marks: 3)

Find D_2 btained by 20

a)
b)

Question No: 37 (Marks: 5)

Mr. Naveed invested a sum of money five years ago in an account which pays 8% per year compounded semi-annually. The account now contains $4OO. What did Mr. Naveed invest five years ago?

Question No: 38 (Marks: 5)

What is the difference between mutually exclusive and exhaustive events? Explain with example.

Question No: 39   (Marks: 5)

Find Harmonic Mean of 3, 5, 6, 6, 7, 10 and 12.