Mth302 - Business Mathematics (Online quiz # 1) 1

The amount added to a cost to arrive at a selling price is ……
Select correct option:

Markup

margin

both markup & margin

percent on cost

At break even point, the company has a positive cash flow that is …… after meeting expensesSelect correct option:

Surplus cash

Slake cash

Net cash

None of these

if the cost of a certain goods item is Rs. 2400 and its selling price is Rs. 4500 then the markup rate iselect correct option:

(4500-2400)/2400

(4500-2400)4500 *100

(4500-2400)/2400*100

(4500-2400)/4500

Total marks of Saleem in two subjects are 160. If the ratio of marks in the two subjects is 3 : 5, what will be the marks in two subjects? Select correct option:

50, 110

60, 100

70, 90

80, 80

A chartered bank is lowering the interest rate on its loans from 9% to 7% what will be the percent decrease in the interest rate on a given loan. elect correct option:

28.6%

27.2%

22.2%

None of these

An identity matrix is a _____ matrix with 1's on the main diagonal from upper left to lower right and 0's off the main diagonal. Select correct option:

square

rectangular

column

none of these

Discount = ------elect correct option: http://vustudents.ning.com/

Net cost price – List price

List price – Net cost price

List price * Net cost price

List price + Net cost price

he salary of an employee is as follows: Basic salary = 10, 0000 Rs. Allowances = 50,000 Rs. Find the % allowances? Select correct option:

10%

50%

30%

None of these

Harry made $16,000 last year at his job. He paid 11% in income tax. How much was his tax? Select correct option:

176

16011

1760

4500

If P=Principal, R=rate percent per annum, T=time in years and I=simple interest thenSelect correct option:

I= PRT/100

I=PR/T

I=PT/R

None of these

Convert 60% Markup (MU) on Cost to % Markup on SaleSelect correct option:

27.5%

37.5%

47.5%

57.5%

An expression 2x is calledSelect correct option:

Monomial

Binomial

Trinomial

Polynomial

List price of an item is Rs.400 but if 50% discount is offered on it then its net price isSelect correct option:

Rs.100

Rs.200

Rs.400

Rs.300

If the cost of tea bags increases from Rs 85.75 to Rs 90.50. What is the percentage increase? Select correct option:

5.54

6.65

7.50

8.25

Solution of linear equation; 0x+8 = 5Select correct option:

Can never be determined

-3

0

-13

The amount added to a cost price while calculating a selling price is calledSelect correct option:

actual price

markup

margin

markdown

if basic salary of an employee is 18,000 Rs. What is the total saving of the employee per month on account of provident fund? Select correct option:

3272.73

3272.23

3273.63

3271.45

If x + 2 : 2 = x : 3, then x =?Select correct option:

2

-3

5

-6

let L be the list price and d represent the percentage discount, then the Amount of discount is = ……elect correct option:

d*L

d / L

d +L

L/d

Mth302 - Business Mathematics (Online quiz # 1) 2

Question # 3 of 10 (Start time: 06:33:37 PM) Total Marks: 1
Solution of linear equation; 0x+8 = 5
Select correct option:

Can never be determined
-3
0
-13

Question # 4 of 10 (Start time: 06:34:34 PM) Total Marks: 1
The rate at which the calculations are made is called
Select correct option:

Discount factor
Discount Rate
Discount Value
Non

Question # 5 of 10 (Start time: 06:36:01 PM) Total Marks: 1
After the merchant buys merchandise, it is sold at a higher price called the-------
Select correct option:

Cost price
Revenue discount

Mark down
None of these

Question # 6 of 10 (Start time: 06:37:29 PM) Total Marks: 1
Dividends, payments on the installments purchases, payments on the rent, interest payments on the bonds, mortgage payments and premium on insurances are all the examples of http://vustudents.ning.com/
Select correct option:
Simple interest
Compound interest
Gratuities
Annuity

Question # 7 of 10 (Start time: 06:38:31 PM) Total Marks: 1
The algebraic expression: x2+xy-6y2 is an example of
Select correct option:
Trinomial
Binomial
Both trinomial and Polynomial
Both Binomial and Polynomial

Question # 8 of 10 (Start time: 06:40:01 PM) Total Marks: 1
What shall be compound intrest earned on Rs.750 invested at 12% per annum for 8 years.
Select correct option:
Rs.1857
Rs.750
Rs.1107
None of these

Question # 9 of 10 (Start time: 06:41:32 PM) Total Marks: 1
Any matrix in which numbers of rows and columns are equal is called …….. matrix.
Select correct option:
Identity
triangular
Diagonal
Square

Question # 10 of 10 (Start time: 06:41:58 PM) Total Marks: 1
The formula FV (ordinary Annuity) = C * [(1 + i)n – 1/i] is used to find the value of
Select correct option:
Future value of the annuity
Accumulation factor
Amount of annuity
Non of above

Q: Convert 50% Markup on Sale to % Markup on Cost.

50%
100%
150%
200%

Q:The Earning per share is the total profits of a company divided by the

annual dividend
number of shares
market value per share
earning per share

Q: The unknown value in the proportion: 2: x = 3: 9, is ….

5
6
7
8

Q: House rent, both utilities and conveyance allowances, both gratuity and provident funds are ---------- of basic salary respectively.

45%, 2.5%, 9.09%
50%, 1.5%, 9.05%
55%, 2.25%, 8.09%
40%, 3.5%, 8.08%

Q:Nauman earned 8% profit on investment of 1000 Rs and in the next deal he has a lost of 8% on the earned amount. What is his original amount now?

1000
993.6
1004
None of these

Sent at 18:52 on Thursday

Q: If 2.5 : 7.5 = 3.7 : x, then x = ?

10.10
11.10
12.10
13.10

Q: In Excel, if we write 4 in A5 cell & 9 in B5 cell, then formula is

"=A5 + B5"
"=B5 + A5"
both (i)&(ii)
none

Q: "=A5 + B5"
"=B5 + A5"
both (i)&(ii)
none

Q:Solve the following algebraic expression [X^2-1] / [x^3 -1]

[x+1] / [x^2+x+1]
[x+1] / [x^2-x+1]
[x-1] / [x^2-x+1]
None of these

Q: If the basic salary of an employee of a company is Rs.14000, then his/her provident fund is

Rs.2425.45
Rs.2545.45
Rs.2525.45
None of these

Q: One dozen bananas cost Rs. 15. They are sold at the markup of 12%. The selling price is -----

16.8
15.8
14.8
17.8

Question # 1 of 10 (Start time: 07:01:59 PM) Total Marks: 1
Identity matrix is also a …….. matrix
Select correct option:
Square
triangular
Diagonal
Both (i)&(iii)

Question # 2 of 10 (Start time: 07:02:38 PM) Total Marks: 1
The unknown value in the proportion: 2: x = 3: 9, is ….
Select correct option:

5
6
7
8

6

Question # 3 of 10 (Start time: 07:03:02 PM) Total Marks: 1
The trade discount is calculated by ----------
Select correct option:

dL
d - L
d + L
d - dL

Question # 4 of 10 (Start time: 07:04:31 PM) Total Marks: 1
If Ali buys pencil 3 Rs. and sell it at price 3.5 Rs. What is percent markup on selling price?
Select correct option:

14.1
14.3
14.5
None of these

Question # 5 of 10 (Start time: 07:05:51 PM) Total Marks: 1
In the word BALLOONS, the ratio of vowels to consonants is
Select correct option:

3/5
3/8
5/3
8/5

Question # 6 of 10 (Start time: 07:07:09 PM) Total Marks: 1
After the new admission to the school, there is an increase of 30 percent of students. If the total number of students is now 1200, what were total students before admission?
Select correct option:

823
923
1023
1123

Question # 7 of 10 (Start time: 07:08:30 PM) http://vustudents.ning.com/
Total Marks: 1
A matrix is a _____ array of numbers.
Select correct option:
square
triangular
rectangular
none of these

Question # 8 of 10 (Start time: 07:09:42 PM) Total Marks: 1
The value of the unknown x in the proportion 2:x=3:9 is given by
Select correct option:
6
3
1/3
2

Question # 9 of 10 (Start time: 07:10:03 PM) Total Marks: 1
A businessman pays an amount of Rs. 3000 to purchase for certain item and sells it at Rs. 3750. Then Mark up rate of the businessman is?
Select correct option:
32%
31%
30%
25%

Question # 10 of 10 (Start time: 07:10:54 PM) Total Marks: 1
If P=principal,R=rate of intrest per annum, T=time in years and I=simple intrest then I=
Select correct option:
P.R/T
PR/T*100
PRT/100
None of these

Question # 1 of 10 (Start time: 07:13:43 PM) Total Marks: 1
If the basic salary of an employee is Rs.14,000 then the utility allowances are ……
Select correct option:
Rs.1400
Rs.700
Rs.350
None of these

Question # 2 of 10 (Start time: 07:14:13 PM) Total Marks: 1
If the basic salary of an employee is Rs.14,000 ,then his/her house rent

allowance is……
Select correct option:
Rs.4500
Rs.5600
Rs.6300
None of these

Question # 3 of 10 (Start time: 07:14:42 PM) Total Marks: 1
For a product, if its list price is Rs.500 at the discount rate of 25% then its net cost price is
Select correct option:
Rs.375
Rs.125
Rs.625
Rs.525

Question # 4 of 10 (Start time: 07:15:18 PM) Total Marks: 1
The value of unknown x in the proportion 2x : 2 = (x+1) : 5 is
Select correct option:
1/4
1/2
4
5/2

Question # 5 of 10 (Start time: 07:16:38 PM) Total Marks: 1
The value of (25) ^ -1/2 is....
Select correct option:
0.5
0.4
0.3
0.2

Question # 6 of 10 (Start time: 07:17:23 PM) Total Marks: 1
Invoice was dated December 1st. The terms 3/15 mean that 3% discount is offered if invoice is paid up to 15th December. What is the net payment for invoice value of Rs. 35,000 if paid up to 15th December
Select correct option:
Rs. 34950
Rs. 33950
Rs. 32950
Rs. 31950

Question # 7 of 10 (Start time: 07:18:53 PM) Total Marks: 1
For Rs. 1630 you can purchase a 7-year ordinary annuity that will pay you a yearly payment of Rs. 430 for 7 years. The compound annual interest rate implied by this arrangement is closest to

Select correct option:

8%
10%
9%
11%

Question # 8 of 10 (Start time: 07:20:23 PM) Total Marks: 1

If the order of a matrix A is 3X3,what shall be order of its inverse?

Select correct option:

2X2
3X3
2X3
none of these

Question # 9 of 10 (Start time: 07:20:56 PM) Total Marks: 1

The salary of an employee is as follows: Basic salary = 20,000 Rs. Allowances = 5,000 Rs. What is the cost on account of casual leaves per year if normal working days per month is 22?

Select correct option:

6818.1Rs.
20454.5Rs.
13636.4Rs.
34090.9Rs.

Question # 10 of 10 (Start time: 07:22:22 PM) Total Marks: 1

The rate at which the calculations are made is called

Select correct option:

Discount factor
Discount Rate
Discount Value
Non

http://vustudents.ning.com/

1-The unknown value in the proportion: 2: x = 3: 9, is ….

Select correct option:

5
6
7
8

2-In 3 years you are to receive Rs. 8,000. If the interest rate were to suddenly increase, the present value of that future amount to you would
Select correct option:
fall
rise
remain unchanged.
cannot be determined without more information

3-15% of the price of a shirt is increased. If the change in the price of the shirt is Rs 25, what is the original price?
Select correct option:
Rs 150.5
Rs 166.7
Rs 175.5
Rs 180.5

4-Tanveer's flower business sells floral arrangements for Rs.35.To make his desired profit; Tanveer needs a 40% markup on selling price. What do floral arrangements cost Tanveer?
Select correct option:
Rs.21
Rs.30
Rs.25
None of these

5-How many basic mathematical operations are used?
Select correct option:
2
3
4
5

6-Harry made $16,000 last year at his job. He paid 11% in income tax. How much was his tax?

Select correct option:
176
16011
1760
4500

7-If I is the identity matrix of dimension 10 then how many rows and columns a matrix A may have provided that IA = A
Select correct option:
10 number of rows & arbitrary number of columns
arbitrary no. of rows & columns
Strictly '10' no of rows & '10' no of columns
10' no. of columns & arbitrary no. of rows

8-A Range which starts from A1 and ends at D15 is referenced by...
Select correct option:
A1:D15
D15:A1
both (i)&(ii)
none

9-What is the formula for money accrued after n years.
Select correct option:
S= P(1+r*100)^n
S=P(1+r/100)^n
S= P(1+100/r)^n
None of these

10-Returns the interest payment for an investment for a given period?
Select correct option:
ISPMT
NPER
IPMT
None of these.

Mth302 - Business Mathematics (Online quiz # 1) 3

Quiz Start Time: 05:10 PM Time Left 47

sec(s)

Question # 1 of 10 (Start time: 05:10:48 PM) Total Marks: 1

If A, B and C are matrices with orders 3×3, 2×3 and 4×2 respectively, then which of the following set of operations are possible?

Select correct option:

4B, A + B, B+C, AB, CB, CBA

4B, CB, CBA

A + B, B+C, CB, CBA

4B, CB, CBA

Quiz Start Time: 05:10 PM Time Left 86

sec(s)

Question # 2 of 10 (Start time: 05:12:04 PM) Total Marks: 1

If 5x/2 = 9y/2 then, the ratio x: y = ……

Select correct option:

9:4

9:5

9:2

9:6

Quiz Start Time: 05:10 PM Time Left 85

sec(s)

Question # 3 of 10 (Start time: 05:12:53 PM) Total Marks: 1

The determinant of a matrix always exist

Select correct option:

For square matrices only

For rectangular matrices only

For horizontal arrays only

For vertical arrays only

Quiz Start Time: 05:10 PM Time Left 85

sec(s)

Question # 4 of 10 (Start time: 05:13:03 PM) Total Marks: 1

Sum of annuity is always

Select correct option:

Present value

Current value

Net present value

None of these

Quiz Start Time: 05:10 PM Time Left 84

sec(s)

Question # 5 of 10 (Start time: 05:14:32 PM) Total Marks: 1

The difference between revenue and cost is called the

Select correct option:

Net present value

Net income

Net Cash flow

None of these

Quiz Start Time: 05:10 PM Time Left 86

sec(s)

Question # 6 of 10 (Start time: 05:15:24 PM) Total Marks: 1

Order of a matrix =_____.

Select correct option:

number of rows X number of columns

number of columns X number of rows

number of rows – number of columns

none of these

Quiz Start Time: 05:10 PM Time Left 84

sec(s)

Question # 7 of 10 (Start time: 05:15:37 PM) Total Marks: 1

In a Proportion, a : b : : c: d , The product of …….

Select correct option:

Means and extremes must be equal

Means must be greater than extremes

Extremes must be greater than mean

None of these

Quiz Start Time: 05:10 PM Time Left 61

sec(s)

Question # 8 of 10 (Start time: 05:15:48 PM) Total Marks: 1

In order to stimulate the demand, the deduction in original sale price of an item is called

Select correct option:

discount

markup

retail price

markdown

Quiz Start Time: 05:10 PM Time Left 79

sec(s)

Question # 10 of 10 (Start time: 05:18:00 PM) Total Marks: 1

Percent is an Excel operator.

Select correct option:

True

False

MATHS QUIZ 2009

Question no 1. The contribution margin per unit is an item's selling price minus the item's.....

- Fixed costs
- **Variable costs**
- Both variable costs & fixed costs.
- Net sales.

Question no 2. Contribution Margin is the amount that can be calculated by deducting Variable Cost from

- Contribution rate
- Net sale
- Net income
- **None of these.**

Question no.3 ……is the value at the end of depreciation.

- **Salvage**
- Asset
- Cost
- None of these.

Question no.4 Difference between IRR and XIRR is that ----------

- **IRR needs regular interval, but XIRR does not need regular intervals**
- XIRR does not calculate Internal Rate of Return, as IRR does.
- The schedule cash flows are needed for IRR only.
- None of these

Question no.5 …… is the number of periods over which the asset is depreciated.

- **Life**
- Asset
- Interval
- none of these

Question no.6 If Variable Cost is Rs.120 and contribution margin is Rs 30, then sale will be ----------

- 120
- 130
- 140
- **150**

Question no.7 Which of the following function returns the depreciation of an asset for a specified period.

- DDB
- **DB**
- IRR
- MIRR

Question no.8 SLN is for depreciation of

- **Asset**
- Profit
- Loss
- Capital

Question no. 9 Contribution margin in Rs. Is equal to

- =(CM/FC)
- **=(FC/CM)*S**
- =(S-FC)*CM
- = (CM-S)*FC.

The regression equation should only used
Select correct option:

When there is significant linear correlation
When there is significant mluticorrelation
When there is significant quadratic correlation
When there is significant simple correlation

In the central tendency Mean, Median and Mode
Select correct option:

Mean is better than Median
Median is better than Mode
Mean is better than Mode
All of these are true

The degree to which numerical data tend to spread about an average is called
Select correct option:

The dispersion
Standard deviation
Correlation
None of these

……..graphs are similar to bar graphs.
Select correct option:

column
line
conversion
sector

A pattern of variation of a time series that repeats every year is called:
Select correct option:
Cyclical
Seasonal
Trend
Secular

If the values of variables are increasing or decreasing in the same direction then such kind of correlation is referred as
Select correct option:
Zero Correlation
Perfect Correlation
Positive Correlation
Negative Correlation

The moving averages of the Prices 55,60,65,70 are
Select correct option:
70, 75
60, 65
65,65
70,60

The best measure of variation is
Select correct option:
Range
Quartile deviation
Variance
Coefficient of variance

In the scatter diagram, clustering of points around a straight line indicates
Select correct option:
linear regression
non-linear regression
curvilinear regression
none of these

Ms. Christian calculated a correlation coefficient of .75. Which of the following reflects the best interpretation of this?
Select correct option:
Weak negative.

Strong negative.
Weak positive.
Strong positive.

1-If all the points in the scatter diagram seem to lie near a line, the correlation is said to be
Select correct option:

Quadratic
Linear
Positive
Negative

2-A Linear line always represent …….. graph.
Select correct option:

circle
line
conversion
sector

3-How many columns, frequency distribution contains ?
Select correct option:

Two
Three
Four
None of these

4-The variance of data 80, 70, 80, 60, 75 is
Select correct option:

60
70
56
66

5-On the basis of data, we wish to estimate the value of variable Y corresponding to a given value of variable X. It can be accomplished by estimating the value of Y from a type of curve that fits the sample data. This type of curve is called
Least square curve
Ogive curve
Scatter curve
Regression curve

6-The method of least squares finds the best fit line that _____ the error between observed & estimated points on the line.
Select correct option:

a) maximises
b) minimizes
c) reduces to zero
d) choice # b & c

7-Which of the following is true?

Select correct option: http://vustudents.ning.com/

Arithmetic Mean is based on all and Mode is on the middle values.
Median based on most frequent value and mode on middle value.
Arithmetic Mean is based on all and median on the middle value.
None of these.

8-Which of the following is not a necessary condition for regression analysis?
Select correct option:

The standard deviation of each of the conditional distributions must be the same.
The Y values are independent.
For each X value, there is a group of Y values and these Y values are normally distributed.
The slope of the regression line is positive (increasing).

9-Which of the following is a measure of central tendency?
Select correct option:

Percentile
Quartile
Standard deviation
Mode

10- The slope of the regression line may be
Select correct option:

Positive
Negative
Zero
All of these