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If you want to learn computer programming then contact with me

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## MTH302 FINAL PAPER 2018 SPRING SEP-16

**52 total questions....40 mcqs, 12 short questions**

→ The scores on a placement test have a mound-shaped distribution with mean 400 and standard deviation 45.

- 1) What percentage of people taking this exam will have scores of 310 or greater?
- 2) What percentage of the people taking this test will have scores between 445 and 490?

(The table value of Z at 1=0.3413, Z at 2=0.4772)

→ Arrange the following set of data in ascending order and write down the frequency table showing the frequency of each term in front of it 9,10,9,8,7,5,3,9,8,8,7,5,5,5,5,3,2,2,3,1,1,2,3,3,2,1,6,7,8,3

→ The estimated regression line of Y on X is

$Y = a + bX$ , it passes through two points A(3,5) and B(0,0). Find the value of a and b.

→ If two fair dice are thrown what is the probability of getting a double 4

→ A random variable X is normally distributed with  $\mu = 50$  and  $\sigma^2 = 25$ . Find the probability that it will be smaller than 57.

(Where the value of Z at 1.40 = 0.4192.)

→ In an insurance company 70% policies have no claim.

In 20% cases Claim is Rs 4000

For the remaining 10% the Claim is Rs40000

What is the expected value of claim per policy?(Using probability distribution.)



→ To calculate the intercept of the regression line we use equation  $\bar{Y} = a + b\bar{X}$  where slope of the line is 0.5. Determine whether y intercept is positive or negative.

X	2	4	6	8
Y	3	7	8	6

→ Find mean using the empirical relationship if  
Median=11.67, Mode=15

→ Let the random variable Z have the standard normal distribution. Find  $P(0.6 \leq Z \leq 1.67)$ .

(Where the value of Z at 1.67 = 0.4525 and value of Z at 0.6 = 0.2257.)

→ Find the range for the following set of temperatures.  
31,26,15,43,19,27,22,12,36,33,30,24,20

→ What will be the intercept of the regression line "Y = a + bX" if  $\bar{X} = 3$ ,  $\bar{Y} = 9$  and  $b = 2$ ?

→ The police line up 10 people in an identity parade; only one of the people is the criminal. A witness does not recognize the criminal and so chooses a person at random. What is the probability that:  
(a) The criminal is chosen  
(b) The criminal is not chosen

## MTH302 Final Term Paper shared by Student

on February 20, 2018 at 8:21pm

**MTH 302 KA Papr 80 marks ka ta, total qustn 52**

**40mcq's , and 12 qustns 2,3 & 5 marks ka**

**mostly end wla leactures m sa ta porobility & normal...**

**& rang ,median r mode find krna ta 2 qustns ta, standard deveratn find krna ta data dea hoa ta. & cost find krni ti ak qustn m 420 sold price ti pen ti jo 140% ta & find aski cost price krni ti.....**



**& correlation coefficient compute krna ta ik dta ta**

**where**

**X = 5 6 8 10**

**Y = 6 7 9 5**

## MTH302 Final Term Paper shared by Student

on February 26, 2017 at 8:54am

best of luck

image: <http://www.virtualinspire.com/images/smilies//ax.gif>

MTH 302

1. Probability
  2. Poisson distribution
- share ur papers plz

## MTH302 Final Term Paper shared by Student

on February 28, 2017 at 1:42pm

i gave my MTH302 today

it was really very easy

some questions were;

- 1) write the formula for seasonal variance
  - 2) what is the difference between normal distribution, poisson distribution and binomial distribution?
  - 3) find mean, median, mode and range of 1,2,3,3,5
  - 4) what is the formula for empirical relationship between mean, median and mode (mean-mode=3(mean-median))
- 4) MCQz
- order of matrices (row x column)
  - probability should be (from 0 to 1)
  - 2-3 were about selling price, cost price, mark up and mark down
  - in symmetrical distribution (mean=median=mode)

GOOD LUCK



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## MTH302 Final Term Paper shared by Student

[zahid usman](#) on August 28, 2016 at 5:46pm

MY today paper

MTH302 paper (Subjective part) :)

-If a three digit number is formed from the digits 1,2,3,4,5,6, and 7, with no repetitions, tell how many of these three digit numbers will have a number value between 100 and 500.

-If Cost price = Rs. 2000

Selling price = Rs. 6500

Then what will be the Rs Markup and percentage Markup?

-A firm sells its new product at Rs. 65 per unit. If the variable cost is Rs 40, find the contribution margin.

-Driving speed of seven vehicles on Islamabad highway is

58mph,80mph,85mph,76mph,55mph,60mph,65mph. Calculate range and midrange of their speed

-Find the number of ways that 9 toys can be divided between 4 children if the youngest is to receive 3 toys & each of the others 2 toys

-A shoe store uses a 30% Markup on cost. Find the cost of a pair of shoes that sells for \$63.

-The equations  $5x + 2y = 48$  and  $3x + 2y = 32$  represent the money collected from school concert tickets sales during two class periods. If  $x$  represents the cost for each adult ticket and  $y$  represents the cost for each student ticket, what is the cost for each adult ticket?

-Determine two variable  $X$  and  $Y$  are correlated or uncorrelated by using the following table

X 0 4

Y 2 2

-If two fair dice are thrown what is the probability of getting a double 4

-If the price of 2 eggs and 3 breads is 50. The price of 4 eggs and 2 breads is 40. Find prices of per egg and per bread.



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-In the government school only 25 students appeared in the kangaroo test. Each obtained a score from 0 to 10. Draw the frequency table of their scores given below.

0,4,9,3,7,4,6,2,8,1,9,3,6,8,2,8,9,5,3,6,7,1,10,5,3

-Find the correlation coefficient  $r$  between variables  $X$  and  $Y$  using the following table

X 5 6 7 8

Y 7 3 8 5

## MTH302 Final Term Paper shared by Student

[zahid usman](#) on August 28, 2016 at 6:00pm

MTH302 current paper .....(Another paper)

Objective MCQS (40)

(subjective)

4 Question of 5 marks, 4 Questions of 3 marks ,4 question of 2 marks...total question =12

1 : Find all quartiles and the inter quartiles range of the given data'

2 : In equation  $y = a + bx$  find the value of  $a$  if  $y =$  and the  $b =$

3: As Equation  $y = a + bx$  at which point the  $y$  intercept the  $x$  find from the values of  $x$  and the values of  $y$  and the slop or  $b =$

4: In this question the value of  $x$  and  $y$  and  $b$  are given .

5: Find BEP in units ,  $FC$  and  $S$  are given

6: Find BEP as % of capacity in this question  $S$  ,  $FC$  , $VC$  are given , this is 5 marks question .

7: Find the number sold above the BEP , this is also 5 marks question

8: From given data find the range .

9: In how many ways  $A$  ,  $B$  ,  $C$  can be arranged

10: How many possible permutations can be formed from the word digit

11: In a factory 40% workforce is female.

25% females belong to the management cadre.

30% males are from management cadre.

If management grade worker is selected, what is the probability that it is a female?



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Aik question ka method same ye wala tha but values change thi.

12: aik yaad nai aa raha sorry

MCQS sub boht easy thy selling price, cost price, Cmin main se hi thy sb and aik possion bistribution formula main e ki constant value wala th

## MTH302 Final Term Paper shared by Student

[zahid usman](#) on August 28, 2016 at 6:12pm

My today's paper of MTH302 (3RD PAPER)

A student chosen at randomly from a class of 16 girls and 14 boys. what is the probability that the student is not a girl (3)

Find the missing figure: ?% of 25=2.125 (2)

After marketing analysis, calculate the break even point in rupees provided that, Fixed cost=Rs500, contribution margin=Rs250 and the expected sale rate is Rs1000 per item. (2)

what is the common measure of central tendency and how it is calculated (2)

If a point (4,5) lie on the regression line  $y = -3 + bX$  find the slope of the line (3)

calculate total no of permutations of 6 objects taken 3 at a time (3)

if the selling price is 5000, Markup rate is 60% on cost price, what is the cost price (3)

four friends taken an IQ test, their scores 96 100 106 114. which of the following statement is true give reason, mean is 103, mean is 104, median is 100, median is 106. (3)

if a student randomly guesses at 5 multiple choice questions, find the probability that the student gets exactly 3 correct. each question has 5 possible choices. (by binomial distribution only) (3)

Suppose 2 DSL companies sale their 256Kb connection for Rs 1000, 512Kb at Rs1700, 1Mb at Rs2400 and 4Mb at Rs 3500. Table summarizes the No. of connections

256Kb 512Kb 1Mb 4Mb

A 150 65 20 6

B 200 160 60 20

revenue of A in year ?, revenue of B in month (matrices must be used to illustrate the information) (5)

calculate the even break point as percent of capacity when an organization introduces an article, the market analyst gives report that the product can be sold at Rs500 per unit, in addition cost analyst provides the following information, Fixed cost=8000 variable cost = 300 per unit, production capacity 900 units per period. (5)

using formula,

aik 5 number k question me aik formula tha or aik table diya gya tha jis me coefficient of linear correlation find krna tha (5)



# MTH302 Final Term Paper shared by Student

[zahid usman](#) on August 28, 2016 at 6:18pm

today mth 302 CURRENT paper (4<sup>th</sup> paper)

1. A pattern of variation of a time series that repeats every year is called:
2. Evaluate
3. What is the probability of scoring 11 when you roll two dice?
4. 12% of the electric bulbs manufactured by a company are defective. What is the probability that a bulb selected will not be defective?
5. Evaluate
6.  $6!$ .....
7. The number of phone calls received by a telephone operator in a certain period. Which type of distribution can better deal with the above mentioned case?
8. In the formula,  $e$  is a constant whose value is .....
9. Which of the following is a continuous distribution?
10. The probability of sum of dots is even and the probability of sum of dots is odd in a throw of two fair dice
11. Which of the following statements is true if a particular event has a probability of 10%.
12. In negative binomial distribution
13. If a dice is thrown. What is the chance of getting an even number or a number divisible by 3?
14. Choose the valid option to calculate the Net Income.
15. If  $r$  is negative, then it indicates
16. If the price of an English novel decreases from Rs 255.50 to Rs 230.25. What is the percentage decrease?
17. Division Symbol “/” is a type of \_\_\_\_\_ .
18. If  $x\%$  of a specific number is  $y$ , then the number is
- 19.. The net price of a computer table is 2500 and list price 3000. What will be the trade discount?
20. Select the valid formula that returns the depreciation for an asset that costs Rs. 10,000 with a salvage value of Rs.6, 000. The useful life of the asset is 4 years. The depreciation is being calculated for the first year and there are 12 months in the first year.
- 21.. The formula use to calculate %Markdown is
22. If the list price of an item is Rs.2000 and discount rate is 10%, then its new price is
23. Calculate the contribution margin if sale price is Rs.85 and variable cost is Rs.25?
24. If the sales-agent sells 70 bulbs for Rs 45 each, what is the net sale?
25. if you buy a notebook for Rs.10 and sell it for Rs. 20, how much Margin on sales have you made?
26. In the regression line “ $Y = a + bX$ ”  $a$  represents:



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27. The standard error of estimate is
- 28.. If maximum number of data points are close to the mean, then the standard deviation is
29. Find Base when  
Percentage = 25, Rate = 0.60
30. If Break Even Point is 120 units, total units sold are 158, and Contribution Margin is Rs.35, then what is Net Income?
31. The attendance marked by the faculty of mathematics department in COMSATS has mean=80 and standard deviation=12. Calculate the coefficient of variation(C.V).
32. If a point (4, 5) lie on the regression line  $Y = -3 + b X$ , find the slope b of the line.
33. FC=Rs.3136, VC=Rs.157, S=Rs.185, capacity=320 units
34. Calculate break even point in terms of rupees and units.