

DEPARTMENT OF MANAGEMENT
SCHOOL OF MANAGEMENT & BUSINESS STUDIES
JAMIA HAMDARD

Odd Semester Examination (Online) January 2021

BBA- V [Semester]

Subject Name: Quantitative Technique for Manager MM: 75

Subject Code: BBA-C-17..... Time: 03Hours

Email Id of the Examiner: drabdulrahmanjamiyahamdard@gmail.com

Email Id of the Assistant Superintendent of Exams: assistant.superintendant2021bba@gmail.com

Email Id of Dean: deanmanagement@jamiahamdard.ac.in

Note:

- Students have to submit the **Scannedhand writtensolution**sto the Examiner, Assistant Superintendent of Examination and Dean on the email ids as mentioned above.
- Students shall use **ruled white paper & blue ink** to write the solution. Each page must have a **serial number and the signature** of the student.
- An additional $\frac{1}{2}$ an hour will be given to the examinees to scan the answer sheets, convert it into single PDF and upload it on the id's given on the question papers.
- If any two copies are found to be similar then both the copies shall be cancelled. Such students will be considered/ tried for unfair means.
- The attachedPDFshall be named as follows –
Roll No- Full Name-Enrollment Number-Course-Semester-Subject Abbreviation(Example: 9033454-Rabia Shaheen-2017-334-032-BBA-V-QTM)and students shall also mention the same in subject line of the email& his/her answer copy also.
- Answer All Questions, each carry equal marks.

Q1: Calculate linear regression lines from the following and find y on x , x on y;

x	1	2	3	4	5	6	7	8
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y	3	7	10	12	14	17	20	24
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Q2: For 10 observations on price x and supply y the following data were obtained (in approximate Units)

$\sum x = 130, \sum y = 220, \sum x^2 = 2288, \sum y^2 = 5506, \text{ and } \sum xy = 3467$,. Obtain the two lines of regression and estimate the supply when the price is 16 units .

Q3: If 10% of the bolts produced by a machine are defective , determine the probability that out of 10 bolts chosen at random

(i) 1 (ii) none (iii) at most 2 bolts will be defective .

Q4: Q4. A die is thrown 270 times and the results of there throws are given below ;

No. appeared on the die ; 1 2 3 4 5 6

Frequency ; 40 32 29 59 57 59

Test wheather the die is biased or not .

Q5: A random sample of size 16 has 53 as mean .The sum of squares of the deviation from mean is 135 . Can this sample be regarded as taken from the population having 56 as mean .Obtain 95% and 99% confidence limits of the mean of the population.