Digital Assignment I

Course: MAT5007 (Applied Statistical Methods) | Slot: D2

Max. Marks: 10 | Last Date of submission: 09.12.2022

Submission Guidelines:

A. The top part of every page must contain the below part in filled up condition.

Reg. No.	Name:	Sign.

B. Answer should be written neatly without any corrections.

C. Take clear and visible snapshot of your answer sheet carefully and make a SINGLE PDF FILE ONLY and then UPLOAD it through log-in portal. Submission through e-mail is not permitted.

D. Uploading of answers in any other format is not acceptable. Do not send different image files or zipped files. Do not send the answer sheet to my e-mail address.

E. Submission after due date will not be evaluated and zero mark will be awarded for such case.

F. Any kind of unfair practices if found will be awarded zero mark.

G. SAME WORDINGS AND WRITING in two answer scripts will be awarded ZERO mark for both. Remember, copying from same source (e.g. internet) also may results the same wordings and writing.

$5 \times 2 = 10$

1. A die is thrown 4 times. Getting a number greater than 2 is a success. Find the probability of getting (i) exactly one success, (ii)less than 3 successes.

2. If the chance that any one of 5 telephone lines is busy at any instant is 0.01, what is the probability that all the lines are busy? What is the probability that more than 3 lines are busy?

3. Probability of getting no misprint in a page of book is $\exp(-4)$. What is the probability that a page contains more than two misprints?

4. Six coins are tossed 6400 times using Poisson distribution. What is the approximate probability of getting six heads 10 times?

5. Fit a Poisson distribution to the following data and compare the expected frequencies with the observed frequencies.

x	0	1	2	3	4
f	122	60	15	2	1

**********End**********