Green University of Bangladesh
Department of Computer Science and Engineering
Midterm Assessment (Google Form), Fall 2021

Course Code: MAT 201   **Course Title: Statistics and Complex Variables**

Full Marks: 20   **Time: 1 Hour**

Sample questions are given below:

[The [CO#] represents mapping of the question with one of the expected outcomes of the course.]

7.	In a study of viral fever of 420 peoples in a village are given below, where the mode is 168. Find the missing frequencies.	[CO1]	4	File Upload

Heights (in cm)	160.- 163	163-166	166-169	169-172	172-175	175-178
No. of students	15	?	142	127	?	2

8.	The rainfall recorded in various places of five districts in a week are given below:	[CO1]	3	File Upload

Rainfall (in mm):	10-39	40-69	70-99	100-129	130-159	160-189
No. of places:	200	150	90	30	20	10

Calculate standard deviation and then calculate quartile deviation using empirical relation.

9.	The first three moments of a distribution about the value 4 are -1, 3 and 7. Calculate co-efficient of variance and 3rd central moment.	[CO1]	2	File Upload

10.	The temperature of two cities A and B are in a winter season are given below:											[CO2]	5	File Upload
	Temperature of city A (in degree Fahrenheit)	69	73	58	76	82	65	75	64	87	70			
	Temperature of city B (in degree Fahrenheit)	65	75	63	75	82	68	71	65	85	68			
	i) Prepare appropriate table for finding the values of co-efficient of variance. ii) Find which city is more consistent in temperature changes?													