TYN Batch: 203(D)

Green University of Bangladesh Department of Computer Science and Engineering

Class Test -2 (Assignment), Fall 2021

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

Full Marks: 15

Answer all the following **Four** questions:

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

Marks obtained by 50 students in an examination are given below. By taking suitable class [CO1] 3 interval prepare a frequency distribution table using exclusive method. Also calculate mean by direct method and short-cut method.

128	100	180	150	200	90	340	105	85	270
200	65	230	150	150	120	130	80	230	200
110	126	170	132	140	112	90	340	170	190
19	96	135	140	150	145	145	125	160	140
35	140	130	135	95	140	120	130	120	92

[CO3] Profit of 1400 companies are given below. For the following incomplete distribution, the mode value is 533.33. Find the missing frequencies using mode formula.

Profit (Taka)	200-399	400-599	600-799	800-999	1000- 1199	1200- 1399	1400- 1599
No of companies	200	?	450	?	100	80	20

3. Marks obtained by some students in an examination are given below. Determine the geometric mean, median and mode from the following frequency distribution

Marks	100-	150-	200-	250-	300-	350-	400-	450-	500-
obtained	150	200	250	300	350	400	450	500	550
No. of students	1	4	6	8	10	25	30	18	6

[CO2] 4

[CO2] 4

4. From the following table showing the wage distribution in a certain factory:

Weekly	1200-	1400-	1600-	1800-	2000-	2200-	2400-	2600-
wages (Tk.)	1400	1600	1800	2000	2200	2400	2600	2800
No. of	8	10	20	30	40	32	18	7
employees								

Calculate variance, 7th decile and 79th percentile.