

UNIVERSITY OF KALYANI

B.A./ B.Sc. PART II EXAMINATIONS 2020

Paper VI (Statistics)

Time: 4 Hours (11am to 3 pm)

Full Marks: 50

1. Prepare a frequency distribution table with the following data. Find mean, median and mode. Prepare a histogram, frequency curve and ogives. Also represent mean and mode graphically. (4+2+2+2+2+2+2+2)

Village level population of Rajnagar P.S. Birbhum District, 1981					
578	174	814	409	207	113
228	412	1142	115	89	393
1022	744	642	511	468	606
356	132	1021	1325	253	452
137	690	468	364	1279	634
159	1312	564	1343	789	593
789	679	1376	269	943	359
467	384	735	824	211	189
351	172	498	643	1079	341
433	677	631	749	771	785

2. Draw a scatter diagram & find the correlation between the following two variables and interpret the relationship. (4+4+2)

Sl. No.	Rainfall in mm	Runoff in mm
1	46.4	31.8
2	63.1	46.9
3	49.8	34.3
4	60.2	47.6
5	50.5	35.3
6	57.5	40.6
7	55.6	41.4
8	57.2	43.6
9	60.9	44.7
10	48.4	38.6

3. Draw a time series graph with the following data using 4-year moving average. Also interpret it. (4+4+2)

No of Agglomerations/ Towns during 1901-2011	
Year	No of Urban Agglomerations
1901	1827
1911	1825
1921	1949
1931	2072
1941	2250
1951	2843

1961	2363
1971	2590
1981	3378
1991	3768
2001	5161
2011	7935

4. Labotary Note Book & Viva-voce (5+5)