

2020

GEOGRAPHY – HONOURS – PRACTICAL**Eighth Paper Group: A Module - 15: Statistical Techniques****Full Marks: 50 Time: 2 Hours (12 Noon to 2 P.M.)***The figures in the margin indicate full marks***Answer any two questions**

1. Table No. 1 represents percentage of marks of 28 Statistics students of a college appear in the Part III Examination 2019.

Table No. 1

Percentage of Marks	Number of Students
46.60 - 49.15	4
49.15 - 51.70	9
51.70 - 54.25	14
54.25 - 56.80	21
56.80 - 59.35	24
59.35 - 61.90	28

- (a) Prepare a grouped frequency distribution showing class frequencies.
 (b) Draw a Histogram.
 (c) Compute Mean and Mode.
 (d) Calculate Second Quartile.

5+5+(5+5)+5

2.

- (a) Top ten marks of Geography (Honours) students of a college in the Part III Examination 2018 and 2019 are given in Table No. 2.
 (i) Find out the Standard Deviation of marks for both the years.
 (ii) Calculate the Co-efficient of Variation and compare the data.

(3+3)+(2+2) = 10

Table No. 2

Sl. No.	Year	
	2018	2019
1	68.38	61.88
2	66.88	61.63
3	63.38	61.50
4	63.13	59.75
5	62.13	59.25
6	62.13	58.50
7	61.63	57.50
8	61.13	56.63
9	59.13	56.63
10	59.13	56.25

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- (b) Draw a Time Series Graph to show the variation in the number of English (Honours) students of a college appear in the Part III Examination (Table No. 3). Compute and draw a trend line by Three-year Moving Average Method. 5+5+5 = 15

Table No. 3

Year	Number of Students
2011	42
2012	21
2013	35
2014	35
2015	41
2016	52
2017	56
2018	35
2019	28
2020	42

3. Table No. 4 shows Adult Literacy Rate (%) and GDP Per Capita (PPP US\$) of twelve countries of South America.

- (a) Draw a scatter diagram with the help of the data in Table No. 4.
 (b) Calculate and draw the regression line.
 (c) Calculate Karl Pearson's Product Moment Correlation Co-efficient. 10+10+5

Table No. 4

Sl. No.	Countries	Adult Literacy (%)	GDP Per Capita (PPP US\$)
1	Argentina	97.20	14280
2	Venezuela	93.00	12134
3	Peru	87.90	6039
4	Ecuador	91.00	4341
5	Paraguay	93.50	4642
6	Bolivia	86.70	2819
7	Brazil	88.60	8402
8	Chile	95.70	12027
9	Uruguay	96.80	9962
10	Guyana	99.00	4508
11	Surinam	89.60	7722
12	Colombia	92.80	7304

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