SH-III/Geography/303/C-7(P)/19

# B.Sc. 3rd Semester (Honours) Practical Examination, 2019-20 GEOGRAPHY

Course ID: 31923

# Course Code : SH/GEO/303/C-7

Course Title: Statistical Methods in Geography

## Time: 3 Hours

Full Marks: 40

The figures in the right hand margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

### SET-I

#### Section-A

What is random sampling? What is a normal frequency distribution? The percentage share of urban population to total population in eight districts of West Bengal during 2001 and 2011 are given below (Table-1). Calculate the standard deviation for both years and which year shows greater variability.

#### Table-1

Sl. No.	District	Percentage Share of Urban Population					
		2001	2011				
1	Burdwan	36.94	39.89				
2	Birbhum	8.57	12.83				
3	Bankura	7.37	8.33				
4	Hoogly	Hoogly 33.47					
5	Purulia	10.07	12.47				
6	Howrah	50.36	63.38				
7	Nadia	21.27	27.84				
8	Murshidabad	12.49	19.72				

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#### **Please Turn Over**

# SH-III/Geography/303/C-7(P)/19 (2)

Differentiate between correlation with regression. The following table shows the literacy rate and work force participation rate for ten districts of West Bengal in 2011. Calculate the coefficient of correlation and interpret the result.

S1. No.	District	Literacy Rate (%)	Work Participation Rate (%)				
1	Burdwan	76.21	35.5				
2	Bankura	70.26	44.7				
3	Birbhum	70.68	37.4				
4	Purulia	64.48	44.5				
5	Kolkata	86.31	37.6				
6	Howrah	83.31	33.7				
7	Maldah	61.73	40.7				
8	Murshidabad	66.59	34.2				
9	Cooch Behar	74.78	39.0				
10	Darjeeling	79.56	35.4				

#### Table-2

**3.** Laboratory Notebook.

## Section-B

What is scatter diagram? Draw histogram, frequency curve and ogive on the basis of following frequency distribution using MS Excel. Find out the mean from the drawing. 2+2+2+2=10

## Table-3

Age	16-	22-	28-	34-	42-	48-	54-	60-	66-	72-	78-	84-	90-	96-	102
Group	21	27	33	41	47	53	59	65	71	77	83	89	95	101	-
															107
No. of Stude- nts	13	11	15	09	17	12	13	08	19	11	13	15	12	11	17

**5.** Viva voce

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