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UG/3rd Sem/GEOG(H)/Pr/19

2019

3rd Semester Examination

**GEOGRAPHY (Honours)**

Paper - C6P

Full Marks : 20

Time : 3 Hours

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

*Answer all the questions.*

**Set - I**

Answer all the questions :

1. A pH record of different soil samples collected from a field area is given below :

7.2	4.9	5.3	8.2	7.5	4.9	8.9	4.4
6.3	5.8	6.1	7.6	6.5	5.7	7.7	8.0
5.6	6.5	7.1	6.8	8.1	6.4	6.6	7.4
4.2	7.2	8.3	6.2	5.4	7.3	5.5	6.9
6.7	4.8	5.3	7.8	8.2	6.3	6.8	7.5
6.5	5.7	5.2	6.3	7.9	7.0	6.0	6.8
5.4	8.1	7.6	6.7				

[ Turn Over ]

- (a) Prepare a proper frequency distribution table.
- (b) Draw the frequency diagram on percentage cumulative frequency.
- (c) Calculate median percentile and upper quartile.
- (d) Estimate the standard deviation of the pH distribution of different samples in the field.

$$3 + 2\frac{1}{2} + 2 + 2\frac{1}{2} = 10$$

2. The following data shows agewise blood pressure of selected persons in a rural area.

Age (year)	Blood Pressure (mm Hg)
56	147
42	128
72	160
36	118
63	149
47	133
59	150
38	124
28	115
49	140
68	154
44	136

( 3 )

(a) Draw the scatter diagram with regression line.

(b) Estimate the blood pressure when the age is 45 years.  $4 + 1 = 5$

3. Laboratory Note Book and Viva-voce.  $3 + 2 = 5$

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*Answer all the questions.*

**Set - II**

Answer all the questions :

1. Spot height (in Km) distributions of two adjoining regions, collected in a geomorphological study, are given below.

Region-1 :

2.8, 2.8, 3.0, 3.3, 2.8, 2.9, 1.7, 2.0, 2.1, 2.6, 2.5,  
2.3, 2.8, 3.5, 1.2, 3.6, 1.5, 1.8, 5.3, 2.1, 2.6, 2.5,  
2.8, 3.7, 2.7, 2.4, 2.6, 3.2, 3.4, 2.9, 1.9, 3.0, 2.1,  
3.2, 2.3, 2.8, 3.5, 4.0, 3.4, 3.9

[ Turn Over ]

Region-2 :

1.5, 2.5, 3.6, 4.5, 0.6, 0.9, 3.5, 2.5, 1.5, 2.6, 0.4,  
 5.3, 4.7, 1.8, 3.6, 5.6, 6.0, 2.5, 2.6, 2.4, 4.0, 3.6,  
 5.8, 0.7, 4.7, 5.4, 4.9, 2.5, 5.4, 0.4, 2.8, 2.0, 5.0,  
 2.3, 6.3, 2.8, 0.5, 1.9, 4.7, 5.3

(a) Consider the above dataset and apply simple random sampling technique using the given random number table to draw the samples of at least 30% of spot heights for each region. 3

(b) Find out which region has more variability in height applying a suitable dispersion technique based on the sample dataset. 6

2. Calculate median marks from the table below. Derive the number of candidates who secured 60% and 70% of marks.

Marks	Candidates
Not more than 35	10
Not more than 45	35
Not more than 55	45
Not more than 65	47
Not more than 75	50 $3+1\frac{1}{2}+1\frac{1}{2}$

3. Laboratory Note Book and Viva-voce. 5

## Random Number Table

13926	70992	65172	28053	02190	83634	66012	70305	66761	88344
43905	46941	72300	11641	43548	30455	07686	31840	03261	89139
00504	48658	38051	59408	16508	82979	92002	63606	41078	86326
61374	57238	47267	35303	29066	02140	60867	39847	50968	96719
43753	21159	16239	50595	62509	61207	86816	29902	23395	72640
83503	51662	21636	68192	84294	38754	84755	34053	94582	29215
36807	71420	35804	44862	23577	79551	42003	58684	09271	68396
19110	55680	18792	41487	16614	83053	00812	16749	45347	88199
82615	86984	93290	87971	60022	35415	20852	02909	99476	45568
05621	26584	36493	63013	68181	57702	49510	75304	38724	15712
06936	37293	55975	71213	83025	46063	74665	12178	10741	58362
84981	60458	16194	02403	80951	80068	47076	23310	74899	87929
66354	88441	96191	04794	14714	64749	43097	83976	83281	72038
49602	94109	36460	62353	00721	66980	82554	90270	12312	56299
78430	72391	96973	70437	97803	78683	04670	70667	58912	21883
33331	51803	15934	75807	46561	80188	78984	29317	27971	16440
62843	84445	56652	91797	45284	25842	96245	73504	21631	81223
19528	15445	77764	33446	41204	70067	33354	70680	66664	75486
16737	01887	50934	43306	75190	86997	56561	79018	34273	24196
99389	06685	45945	62000	76228	60645	87750	46329	46544	95665
36160	38196	77705	28891	12106	56281	86222	66116	39626	06080
05505	45420	44016	79662	92069	27628	50002	32540	19848	27319
85962	19758	92795	00458	71289	05884	37963	23322	73243	98185
28763	04900	54460	22083	89279	43492	00066	40857	86568	49336

42222 40446 82240 79159 44168 38213 46839 26598 29983 67645  
43626 40039 51492 36488 70280 24218 14596 04744 89336 25630  
97761 43444 95895 24102 07006 71923 04800 32052 41425 66862  
49275 44270 52512 03951 21651 53867 73531 70073 45542 22831  
15797 75134 39856 73527 78417 36208 59510 76913 22499 68467  
04497 24853 43879 07613 26400 17180 18880 66083 02196 10638

95468 87411 30647 88711 01765 57688 60665 57636 35070 37285  
01420 74218 71047 14401 74537 14820 45248 78007 65911 38583  
74633 40171 97092 79137 30698 97915 36305 42613 87251 75508  
4662 99688 59576 04887 02310 35508 69481 30300 94047 57096  
10853 10393 03013 90392 89639 65800 88532 71789 59964 40681

68583 01032 67028 29733 71176 35699 10551 15091 52947 20134  
75818 78982 24258 93051 02081 83890 66944 99856 87950 13952  
16395 16837 00538 57133 89398 78205 72122 99655 25294 20941  
53892 15105 40963 69267 85534 00533 27130 90420 72584 84576  
6609 26869 91829 65078 89616 49016 14200 97469 88307 92282

45292 93427 92326 70206 15847 14302 60043 30530 57149 08642  
34033 45008 41621 79437 98745 84455 66769 94729 17975 50963  
13364 09937 00535 88122 47278 90758 23542 35273 67912 97670  
03343 62593 93332 09921 25306 57483 98115 33460 55304 43572  
46145 24476 62507 19530 41257 97919 02290 40357 38408 50031

37703 51658 17420 30593 39637 64220 45486 03698 80220 12139  
12622 98083 17689 59677 56603 93316 79858 52548 67367 72416  
56043 00251 70085 28067 78135 53000 18138 40564 77086 49557  
43401 35924 28308 55140 07515 53854 23023 70268 80435 24269  
18053 53460 32125 81357 26935 67234 78460 47833 20496 35645

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**Set - III**

*Answer all the questions.*

1. A earthquake magnitude of different sites in India has been recorded in 2018 in given below :

5.1	5.1	5.3	5.2	5.1	5.2	5.4	5.8
6.3	6.4	6.1	6.2	6.9	6.7	6.5	6.4
6.5	5.5	5.6	6.7	6.5	6.3	5.1	6.8
6.1	6.2	6.8	5.1	5.5	6.8	7.1	7.2
7.4	7.5	7.1	7.3	7.3	7.4	7.7	5.1

- (a) Prepared a proper frequency distribution table.

2½

[ Turn Over ]

- (b) Draw a suitable diagram using frequency and calculate all the different measures of Average.

$1\frac{1}{2}+2$

- (c) Pick the samples (25%) from the given data set apply systematic sampling techniques and sample should be starting from the first one. 1

- (d) Calculate the any two measures of dispersion using sampling data.  $1\frac{1}{2} + 1\frac{1}{2}$

2. The following data shows average slope ( $^{\circ}$ ) and Population density (sq. km) in a study region.

Average slope ( $^{\circ}$ )	Population density (sq.km)
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45	60
----	----

36	90
----	----

23	80
----	----

12	180
----	-----

5	150
---	-----

8	600
---	-----

10	300
----	-----

33	240
----	-----

6	120
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3	500
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- (a) Draw a scatter diagram 1+2+2
- (b) Compute and draw the regression line using least square method.
- (c) Calculate the residant.

3. Laboratory Note Book and Viva-voce.

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Set - IV

*Answer all the questions.*

1. The daily income of 40 workers (in Rs.) are given below :

252	240	208	205	352	370	262	315
315	218	248	277	385	362	370	288
210	222	245	345	243	263	315	278
247	378	329	205	335	356	277	374
315	211	209	218	248	384	335	331

- (a) Prepare a proper frequency distribution table.

*[ Turn Over ]*

- (b) Draw the frequency diagram based on relative frequency.
- (c) Graphically represent median, lower quartile and 5th decile.
- (d) Calculate the standard deviation.  $3+2+2\frac{1}{2}+2\frac{1}{2}$

2. Draw the scatter diagram with regression line based on the following data and interpret. 5

Location	Area in Hectare	Crop yield/Hectare
1	37.5	92.5
2	34.5	11.1
3	42.2	10.5
4	51.5	11.8
5	46.2	20.4
6	58.1	16.5
7	85.2	20.0
8	62.1	16.6
9	81.5	27.8

3. Lab note book and Viva-voce

2+3