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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

- (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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3rd Semester Examination
GEOGRAPHY (Honours)

Paper - C6P

(Statistical Methods in Geography)

Full Marks : 20

Time : 3 Hours

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in their own words as far as practicable.***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