NEW

Part-III 3-Tier

2019

GEOGRAPHY

(Honours)

PAPER-VIII (Set-1)

(PRACTICAL).

Full Marks: 100

Time: 6 Hours

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.

Answer all questions

Unit-I

1. The following table shows number of rainy days during
June to October for 60 weather stations of a region. On

the basis of this dataset attempt the following questions.

6	9	58	56	0	25	32	34	38	9
67	17	61	51	35	38	37	13	44	5
68	48	35	31	32	21	23	23	49	66
19	25	34	42	46	42	45	25	63	41
35	36	37	35	33	46	28	31	34	42
46	38	36	45	48	53	27	29	31	55

- (a) Prepare a frequency distribution table with seven equal classes.
- (b) Calculate less than and more than cumulative frequencies and draw ogives, and graphically find out median with the help of ogives.

 1+1+1+1+1
- (c) Calculate mean, mode and standard deviation.

 3+3+3
- (d) Calculate skewness with the help of mean, mode and standard deviation.

Unit-2

2. The table below presents amplitude of relief (in m) and settlement frequency (per 10 km²).

Amplitude of relief (m): 30 60 70 80 90 100 140 150 170 190 200 Settlement frequency: 16 10 20 17 14 11 17 (per 10 km²) 12 7

(a) Compute the degree of association between the two given variable employing Pearson's product moment correlation coefficient. 6

6

8

- (b) Test the Statistical significance of the derived correlation after formulating suitable hypothesis (t = 2.23, $\alpha = .05$, df = 10). 3
- (c) Derive co-efficient of determination and comment on it. 2
- (d) How is bivariate regression different from multivariate regression ? 1

3. Distribution of landholdings in one administrative region as given by size of holdings, the number of holdings and area of holdings bellow:

Size of land holding (hec.)	No. of land holdings (in hundred)	Area of land holding (in hundred hec.)
< 2	14.1	8.8
2-4	16.5	23.5
4-6	18.3	33.9
6-8	4.2	21.1
8-10	3.1	18.2
10-12	1.8	15.0
12-14	1.5	12.6
≥14	0.8	9.5

(a) Show the inequality in size distribution of land holdings in the administrative region with proper diagram.

- (b) Interpret the inequality of the distribution. 5+3
- 4. (a) If the existed cropped area in a CD Block are 48.5%, 23.1%, 2,3% and 15.3% for rice, potato, oilseed, maize and pulses respectively, find out the proper crop combination for that CD Block.
 - (b) Highlight the major applications of Nearest Neighbourhood Analysis in Geographical Study and Research. 3+2

Unit-3

- 5. (a) Prepare a land use and land cover map through extracting at least three physical and three socio-economic features from the given SFCC satellite image (to be selected by the examiners) and interpret the map.
 - (b) Mention spatial and spectral resolutions of LISS-IV sensor.

6. (a) Conduct a field survey using a GPS receiver (to be provided) at points A, B, C, D and E marked on the ground (to be marked by the examiners). Prepare a field book after taking necessary readings and plots the survey points graphically on a suitable scale.

3

(b) What are 'ephemeris' and 'almanac' associated with GPS signals?

Unit-4

7. (a) Field report.

15

(b) Viva-Voce on field report.

10

Unit-5

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(b) Viva-Voce on Laboratory Note Book.

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