



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours 6th Semester Examination, 2022

CC13-GEOGRAPHY (PRACTICAL)

EVOLUTION OF GEOGRAPHICAL THOUGHTS

Time Allotted: 2 Hours

Full Marks: 20

*The figures in the margin indicate full marks.
All symbols are of usual significance.*

SET-II

1. Calculate chi-square (χ^2) for the following data and interpret the relationship between gender and education level at 0.05 significance level.

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| Education \ Gender | High School up to class XII | Bachelor | Masters | Ph.d | Total |
|--------------------|-----------------------------|----------|---------|------|-------|
| Female | 70 | 50 | 46 | 30 | 196 |
| Male | 50 | 40 | 53 | 57 | 200 |
| Total | 120 | 90 | 99 | 87 | 396 |

(a) Critical Values of Chi Square

| Degrees of freedom | Significance level (one-tailed) | | | | |
|--------------------|---------------------------------|-------|-------|-------|-------|
| | 0.1 | 0.05 | 0.01 | 0.005 | 0.001 |
| 1 | 2.71 | 3.84 | 6.64 | 7.88 | 10.83 |
| 2 | 4.60 | 5.99 | 9.21 | 10.60 | 13.82 |
| 3 | 6.25 | 7.82 | 11.34 | 12.84 | 16.27 |
| 4 | 7.78 | 9.49 | 13.28 | 14.86 | 18.46 |
| 5 | 9.24 | 11.07 | 15.09 | 16.75 | 20.52 |
| 6 | 10.64 | 12.59 | 16.81 | 18.55 | 22.46 |
| 7 | 12.02 | 14.07 | 18.48 | 20.28 | 24.32 |
| 8 | 13.36 | 15.51 | 20.09 | 21.96 | 26.12 |
| 9 | 14.68 | 16.92 | 21.67 | 23.59 | 27.88 |
| 10 | 15.99 | 18.31 | 23.21 | 25.19 | 29.59 |
| 11 | 17.28 | 19.68 | 24.72 | 26.76 | 31.26 |
| 12 | 18.55 | 21.03 | 26.22 | 28.30 | 32.91 |
| 13 | 19.81 | 22.36 | 27.69 | 30.82 | 34.53 |
| 14 | 21.06 | 23.68 | 29.14 | 31.32 | 36.12 |
| 15 | 22.31 | 25.00 | 30.58 | 32.80 | 37.70 |
| 16 | 23.54 | 26.30 | 32.00 | 34.27 | 39.29 |

| | | | | | |
|-----|--------|--------|--------|--------|--------|
| 17 | 24.77 | 27.59 | 33.41 | 35.72 | 40.75 |
| 18 | 25.99 | 28.87 | 34.80 | 37.16 | 42.31 |
| 19 | 27.20 | 30.14 | 36.19 | 38.58 | 43.82 |
| 20 | 28.41 | 31.41 | 37.57 | 40.00 | 45.32 |
| 21 | 29.62 | 32.67 | 38.93 | 41.40 | 46.80 |
| 22 | 30.81 | 33.92 | 40.29 | 42.80 | 48.27 |
| 23 | 32.01 | 35.17 | 41.64 | 44.18 | 49.73 |
| 24 | 33.20 | 36.42 | 42.98 | 45.56 | 51.18 |
| 25 | 34.38 | 37.65 | 44.31 | 46.93 | 52.62 |
| 26 | 35.56 | 35.88 | 45.64 | 48.29 | 54.05 |
| 27 | 36.74 | 40.11 | 46.96 | 49.65 | 55.48 |
| 28 | 37.92 | 41.34 | 48.28 | 50.99 | 56.89 |
| 29 | 39.09 | 42.56 | 49.59 | 52.34 | 58.30 |
| 30 | 40.26 | 43.77 | 50.89 | 53.67 | 59.70 |
| 40 | 51.81 | 55.76 | 63.69 | 66.67 | 73.40 |
| 50 | 63.17 | 67.51 | 76.15 | 79.49 | 86.66 |
| 60 | 74.40 | 79.08 | 88.38 | 91.95 | 99.61 |
| 70 | 85.53 | 90.53 | 100.43 | 104.22 | 112.32 |
| 80 | 96.58 | 101.88 | 112.33 | 116.32 | 124.84 |
| 90 | 107.57 | 113.15 | 124.12 | 128.30 | 137.21 |
| 100 | 118.50 | 124.34 | 135.81 | 140.17 | 149.45 |

2. Percentage distribution of the average area under five different crops in 4 Gram Panchayat areas is given below. Identify the significant crops of the given Gram Panchayat areas by using Rafiullah's method.

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| Gram Panchayat | % of Crop land occupied | | | |
|----------------|-------------------------|--------|---------|------|
| | Rice | Potato | Mustard | Jute |
| A | 49 | 21 | 16 | 10 |
| B | 30 | 32 | 15 | 18 |
| C | 60 | 30 | 5 | 4 |
| D | 30 | 50 | 10 | 6 |

3. Laboratory Note Book and Viva-Voce

3+2

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