

PG SECOND SEMESTER EXAMINATIONS, 2026
GENERAL PRACTICAL PAPER
COURSE CODE: GEOGCCPO203N
DEPARTMENT OF GEOGRAPHY & APPLIED GEOGRAPHY
JALPAIGURI CAMPUS
UNIVERSITY OF NORTH BENGAL

Time: 4 Hours

Full Marks: 75

1. Make a graphical presentation of Altimetric Curve with the following data and explain the results. 8+2=10

430	480	560	601	102	710
440	980	710	108	103	810
1062	1000	620	320	430	320
403	462	150	158	182	210
406	908	1001	910	162	132
610	504	508	230	240	362
201	102	710	432	440	320

[Height Values in Meter]

2. Perform Stream Ordering after Strahler's Scheme from the given base maps and Interpret. 10+2=12

3. Station E failed to record the rainfall during a storm while that rain event was recorded in surrounding four stations namely A, B, C, and D. Following table shows the rainfall values recorded in those stations along with the coordinate values of the stations. Based on this available database estimate the missing rainfall value at station E. 12

Sl No.	Station Name	Coordinate X	Coordinate Y	Rainfall (mm)
1	A	10	13	72
2	B	-8	7	76
3	C	-11	-9	68
4	D	7	-13	57

4. From the given Pluviometric Chart calculate the following and interpret the results. 1.5+2+2+2+1.5+2=11
- Calculate the total rainfall from the given chart.
 - Calculate the dry period.
 - Calculate the mean rainfall.
 - Calculate the highest rainfall intensity or peak intensity from the given chart.
 - What is the range of temperature marked in a Thermohygrograph?

5. The following table shows the distribution of area (hectare) of major crops in some blocks of Koch Bihar District for the year 2016-17. Delineate the crop combination regions of the given blocks after S M Rafiullah's method and interpret the result. 12

Block-wise Crop Area (hectare) of Koch Bihar District in 2015-16

Sl. No	Blocks	Paddy	Potato	Jute	Maize	Vegetables	Oilseeds
1	Koch Bihar-I	21197	6792	4828	294	9440	498
2	Dinhata-I	34614	5890	9924	2852	10505	874
3	Mathabhanga-I	7367	5498	5421	468	6609	398
4	Tufanganj-I	27068	4847	5266	872	7426	798
5	Tufanganj-II	15228	3721	1836	974	5599	856

6. From the given dataset of Jalpaiguri district, calculate and draw the Exponential Growth Curve and Interpret the Same. 8+2=10

Sl. No	1	2	3	4	5	6	7
Year	1951	1961	1971	1981	1991	2001	2011
Population	916,747	1,359,292	1,750,159	2,214,871	2,800,543	3,401,173	3,872,846

7. Laboratory Note Book & Viva Voce 4+4=8

GEOGRAPHY AND APPLIED GEOGRAPHY
APPLIED CULTURAL (RURAL DEVELOPMENT, TOURISM & URBAN PLANNING)
COURSE: GEOGCCT0202N

Time Allotted: 3 Hours

The figures in the margin indicate full marks.

Full Marks:

SECTION-I

Answer all the questions

1. (a) Discuss the need for Crop insurance and mention the salient features of the Pradhan Mantri Fasal Bima Yojana (PMFBY) in India.

10×3 = 30

OR

- (b) Explain the Pradhan Mantri Gram Sadak Yojana (PMGSY) as a programme of rural network connectivity in India.

2. (a) What are the justifications given for including tourism as a part of geographical study? How does it qualify to be a discipline of Applied Geography?

OR

- (b) What are the major elements that lead to a development of tourist destination? Explain with examples.

3. (a) Discuss the salient features of urban planning of New Delhi.

OR

- (b) Elaborate the urban environmental problems in India.

SECTION-II

Answer all the questions

8×3 = 24

4. (a) Explain the salient features of SGSY as a rural employment generation programme in India.

OR

- (b) Explain the three tier structure of Panchyati Raj Institution in India.

5. (a) What are the positive and Negative impacts of tourism on the economic environment?

OR

- (b) Discuss the major factors of tourist motivation according to McIntosh. What are the factors that discourages a tourist to travel?

6. (a) Define master plan and discuss its salient features.

OR

- (b) Write a short note on the challenges of urban planning.

SECTION-III**Write short notes on the following**

7. (a) Salient features of Pradhan Mantri Krishi Sinchayee Yojana (2015).

OR

(b) Pradhan Mantri Adarsh Gram Yojana (PMAGY).

8. (a) R.W. Butler's Tourist Development life Cycle.

OR

(b) Distinguish between Sunlust and Wanderlust tourists.

9. (a) Garden city

OR

(b) Conurbation.

SECTION-IV**Choose the correct answer** $1 \times 9 = 9$

10. Swajaldhara Scheme was started in India in the year
 (a) 2000 (b) 2002 (c) 2004 (d) 2006
11. The Nilokheri Experiment in 1948 was founded by
 (a) Jawahar Lal Nehru (b) Dr. Rajendra Prasad
 (c) Sardar Ballav Bhai Patel (d) S.K. Dey
12. National Food Security Mission in India was launched in the year
 (a) 2005 (b) 2006 (c) 2007 (d) 2008
13. The Ashok Mehta Committee was set up in
 (a) 1976 (b) 1977 (c) 1978 (d) 1979
 for the recommendation of Panchayati Raj Institution in India.
14. According to Stanley Plog, the most adventurous tourists are
 (a) Psychocentric tourists (b) Midcentric tourists
 (c) Allocentric tourists (d) Charter tourists
15. According to the UNWTO, a tourist is a person who travels outside their usual environment for at least
 (a) 12 hours (b) 24 hours (c) 48 hours (d) one week
16. Carrying Capacity in tourism refers to
 (a) Number of tourists transported
 (b) Maximum tourists a destination can sustain
 (c) Hotel occupancy rate
 (d) Revenue generated per tourist
17. Garden city is based on the concept of
 (a) 2 (b) 3 (c) 4 (d) 5 magnets
18. (a) Howard (b) Le Corbusier (c) Geddes (d) Stain
 is known as the father of modern town planning.



UNIVERSITY OF NORTH BENGAL
PG 2nd Semester Examination, 2026

GEOGRAPHY AND APPLIED GEOGRAPHY
APPLIED PHYSICAL (ENVIRONMENTAL POLLUTION AND HAZARD)
COURSE: GEOGCCT0201N

Time Allotted: 3 Hours

The figures in the margin indicate full marks.

Full Marks: 75

SECTION-I

Answer all questions

10×3 = 30

1. (a) What is Environmental Pollution? Write a case study on Water Pollution and the various measures adopted for its mitigation.

OR

- (b) Discuss the concept of EIA. Write a note on historical aspects and processes of EIA.

2. (a) Write elaborately on the structural measures for flood management with suitable examples.

OR

- (b) Discuss the flood intensifying factors with examples from India.

3. (a) Explain with suitable examples and diagrams the mechanism of landslide Occurrences.

OR

- (b) Critically examine the causative factors of landslide occurrences with special reference to Darjeeling-Sikkim Himalayas.

SECTION-II

Answer all questions

8×3 = 24

4. (a) Write a brief account on India's Environmental Policy (1992).

OR

- (b) Assess the National Conservation strategy (1983-'84) for conservation of natural resources in India.

5. (a) Describe the significance of Unit Hydrograph used for flood estimation with suitable diagram.

OR

- (b) Mention the various types of meteorological warning for flood forecasting.

6. (a) Apply Coulomb's equation to explain the Various components of resisting forces which tend to hold geomaterials on sloping surfaces.

OR

- (b) Write on Landslide susceptibility zonation mapping with reference to AHP model.

SECTION-III**Answer all the questions**

4×3 = 12

7. (a) What is environmental auditing?
OR
 (b) Write a note on 'Ganga Knowledge Centre'.
8. (a) Write in brief on 'Local Flood Warning Systems' (LFWS).
OR
 (b) Write briefly on Gumbel's methods of flood frequency study.
9. (a) Assess the importance of weep hole in retaining wall on sloping surfaces.
OR
 (b) Write a short note on Patterned Ground.

SECTION-IV**Answer all questions (Choose the correct answer)**

1×9 =

10. National Mission for Clean Ganga was established under the Ministry of Jalshakti/Ministry of Forest/Ministry of Defence/Ministry of Public Health and Family Welfare.
11. Article 48A/49A/58A/59A directs the state to protect and improve the environment and safeguard the country's forests and wildlife.
12. A 10-year return period of flow corresponds to the exceedance probability of 0.01/0.001/0.10/0.0001.
13. Rating curve is a hydrological plot that depicts stage-discharge/runoff-discharge/energy-discharge/rainfall-discharge relation of a gauging station.
14. The international decade for Natural disaster reduction is 1970s/1980s/1990s/2000s.
15. 'Solifluction' usually occurs in periglacial/humid tropical/humid temperate/tropical hot semi arid region.
16. Which one among the given is the fastest process of landslides: rockfall/slump/snow creep/lateral spread.
17. The block glide belongs to the category of a fall/rotational slide/translational slide/creeping.
18. To reduce air pollution, the artificial way of causing rainfall makes use of Sodium Nitrate and Potassium Nitrate/Sodium Iodide & Potassium Nitrate/Sodium Nitrate and Potassium Iodide/Sodium Iodide & Potassium Iodide.



UNIVERSITY OF NORTH BENGAL
PG 2nd Semester Examination, 2026

GEOGRAPHY AND APPLIED GEOGRAPHY
TECHNIQUES OF SOCIO-ECONOMIC SURVEY: PART B (RURAL AREA)
COURSE: GEOGDET0201B

Time Allotted: 2 Hours

Full Marks: 42

The figures in the margin indicate full marks.

SECTION-I

Answer all the questions

10×2 = 20

1. Frame a questionnaire on any **one** of the topic given below:
(a) Rural Market and its impact on local livelihood.
OR
(b) Status of Health Care in rural areas.
2. (a) Classify data based on scale of measurement and describe each type of data with suitable examples.
OR
(b) Distinguish between sampling frame and sampling unit. Explain the steps to draw sample of a specific size from population in MS-Excel using random sampling method.

SECTION-II

Answer all the questions

7×2 = 14

3. (a) Define research. What are the techniques involved in defining a research problem?
OR
(b) What are the precautions a researcher has to take during interpretation?
4. (a) Make a difference between Cross section data and time series data.
OR
(b) Compare and Contrast between Census and Sampling.

SECTION-III

Answer all the questions

1 × 8 = 8

5. Research design is a
(a) Statement of the problem
(b) Blueprint for conducting research
(c) Data Collection tool
(d) Statistical techniques used for analysing data
6. Which of the following is not a characteristic of good hypothesis?
(a) Testable (b) Clear (c) Ambiguous (d) Specific
7. A variable that mediates the relationship between independent and dependent variables is known as
(a) Extraneous Variable (b) Intervening Variable
(c) Moderator Variable (d) Control Variable
8. Each member of the population is known as
(a) Data (b) Family (c) Element (d) Group
9. Temperature is the
(a) Nominal (b) Ordinal (c) Interval (d) Ratio scale data
10. Data that are collected from same respondent over multiple points in time are called
(a) Panel data (b) Cross-Section data
(c) Time Series data (d) Pooled data
11. Which of the following is a type of non-probability sampling?
(a) Quota (b) Convenience
(c) Snowball (d) All of these
12. Question on Caste is always
(a) MCQ (b) Binary
(c) Binary & MCQ question (d) None of these