

1 (Sem-5/FYUGP) GGY 41 MJ

2025

GEOGRAPHY

(Major)

Paper : GGY0500104

(Climatology, Biogeography and Oceanography)

Full Marks : 45

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following questions in very short :

1×5=5

- (a) What is atmospheric pressure gradient?
- (b) Define weather.
- (c) Give an example of man-made ecosystem.
- (d) Write one characteristic of ocean deposits.
- (e) What is the normal lapse rate in the atmosphere?

2. Answer any *five* from the following questions : $2 \times 5 = 10$

- (a) Mention two biodiversity hotspots of India.
- (b) Write two characteristics of air mass.
- (c) Give an example of food chain.
- (d) What is submarine topography?
- (e) Distinguish between ecosystem and ecology.
- (f) What are the components of biosphere?
- (g) Distinguish between continental shelf and continental slope.
- (h) What is relative humidity?

3. Answer any *four* from the following questions : $5 \times 4 = 20$

- (a) Write a note on the major soil types of India along with their regional distribution.
- (b) Explain the concept of bio-energy cycle.
- (c) Mention the effects of El-Nino and their climatic significance.
- (d) Distinguish between the mechanism of tropical and extra-tropical cyclones.

(e) What are the techniques of weather forecasting?

(f) Explain the major bottom relief features of the Atlantic Ocean.

(g) Write a note on energy flow and ecological pyramid and its significance in the environment.

(h) Explain the factors that modify the air mass in the atmosphere.

4. Answer any *one* from the following questions : 10

(a) What is the composition of atmosphere? Explain the vertical structure of the atmosphere and the associated characteristics with suitable diagram.

$3 + 7 = 10$

(b) What is ocean current? Classify it into different types. Explain briefly how ocean currents influence local weather of an area.

$2 + 2 + 6 = 10$

(c) Classify ecosystem into different types. Mention the characteristics of grassland ecosystem with suitable examples.

$4 + 6 = 10$

(d) Explain the factors and processes of soil formation. Mention how variation of soil types is related to different vegetation types in global context.

$5 + 5 = 10$

1 (Sem-5/FYUGP) GGY 42 MJ

2025

GEOGRAPHY

(Major)

Paper : GGY0500204

(Quantitative Methods in Geography)

Full Marks : 45

Time : 2 hours

*The figures in the margin indicate full marks
for the questions.*

1. Answer in *one* or *two* word(s) each : $1 \times 5 = 5$
- (a) Give one example of ordinal scale.
 - (b) What is the simplest measure of dispersion?
 - (c) Which scale of measurement classifies data into categories without any order?
 - (d) Which sampling method ensures equal chance of selection?
 - (e) Name the correlation method used for ranked data.

2. Answer the following questions in short
(any five) : $2 \times 5 = 10$

- (a) Distinguish between primary and secondary geographical data.
- (b) What is stratified random sampling?
- (c) State any two uses of regression lines in geographical data analysis.
- (d) Mention two applications of standard deviation in geography.
- (e) What do you mean by quantification in geography?
- (f) Define mode.
- (g) What is regression analysis?
- (h) Mention any two advantages of quantification in geographical studies.
- (i) State the purpose of using the semi-average method in time series analysis.
- (j) Give two examples of geographical problems where correlation analysis is useful.

3. Answer the following questions (any four) :
 $5 \times 4 = 20$

- (a) Describe different types of geographical data with suitable examples.
- (b) Discuss why the median is sometimes preferred to the mean. Illustrate your answer with an example.
- (c) Discuss the different types of scale of measurement with suitable examples.
- (d) Distinguish between mean and median. Elaborate their advantages and limitations.
- (e) Define correlation. Elaborate about its different types and characteristics with examples.
- (f) Distinguish between Spearman's rank correlation and Pearson's product-moment correlation in terms of their computation and usefulness.
- (g) What is time series analysis? Discuss its relevance in geographical studies.
- (h) Describe the major sources of geographical data and explain how each can be used in geographical studies.

4. Answer in detail the following questions
(any one) :

10

- (a) Discuss in detail the significance of quantification in geography. Explain how the quantitative revolution aided in geographical analysis.
- (b) Discuss the meaning and types of sampling. Compare between simple random sampling and stratified random sampling with examples.
- (c) Discuss the usefulness of dispersion measure in geographical data analysis. Explain with reference to any two measures.
- (d) Explain the concept of linear regression and its applications in geographical analysis.

1 (Sem-5/FYUGP) GGY 43A MJ

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GEOGRAPHY

(Major)

Paper : GGY0500304A

(Economic and Resource Geography)

Full Marks : 45

Time : 2 hours

*The figures in the margin indicate full marks
for the questions.*

1. Answer the following questions in very short :

1×5=5

- (a) What is tertiary economic activity?
- (b) Which country is the largest producer of coffee in the world?
- (c) Give an example of country from where India imports petroleum.
- (d) Mention one factor influencing transport development.
- (e) Define resource.

2. Answer any *five* of the following questions in short : 2×5=10

- (a) What is international trade?
- (b) Write the significance of capital in production system.
- (c) Mention two major IT-based industries of the world.
- (d) What is Material Index?
- (e) Mention two physical factors influencing cultivation of rice.
- (f) Mention two characteristics of resource.
- (g) What is intensive agriculture and where is it practised?
- (h) Give two examples of primary economic activity.
- (i) Write two characteristics of cottage industry.
- (j) What is the impact of climate on agriculture?

3. Answer any *four* of the following questions : 5×4=20

- (a) Write a note on Special Economic Zone (SEZ).
- (b) What are the different modes of transport? Write their advantages and disadvantages.
- (c) What is regional disparity? Give examples in Indian context.
- (d) Explain the major factors of distribution and production of Iron and Steel.
- (e) Write a note on India's trade relation with Japan and Russia.
- (f) Mention the factors influencing agriculture of the world. Give examples.
- (g) What are the geographical factors favourable for growth and cultivation of tea?
- (h) Classify different agricultural patterns and practices in global context along with their examples.

4. Answer any one of the following questions : 10

- (a) Explain the basic concept of 'least cost location theory' of Alfred Weber in detail.
- (b) Define economic geography. Write the scope and approaches of studying economic geography. 2+8=10
- (c) Explain the Von Thunen's agricultural model and its present-day validity.
- (d) What are the important factors influencing growth of cotton textile industry? Discuss the distribution and production of cotton textile industry in different parts of the globe. 3+7=10

1 (Sem-5/FYUGP) GGY 44 MJ

2025

GEOGRAPHY

(Major)

Paper : GGY0500404

(Social, Cultural and Political Geography)

Full Marks : 45

Time : 2 hours

*The figures in the margin indicate full marks
for the questions.*

1. Answer the following questions in very short :

1×5=5

(a) Define space.

(b) What is buffer zone?

(c) In which part of the globe Mongoloid people are found?

(d) What is folk culture?

(e) Mention the countries separated by McMahan Line.

(2)

2. Answer any *five* of the following questions in short : $2 \times 5 = 10$

- (a) Write two components of society.
- (b) Define social well-being.
- (c) What is cultural diffusion?
- (d) Write two characteristics of Nation.
- (e) What is Lebensraum?
- (f) Mention two approaches of studying political geography.
- (g) Write two causes of social disparity.
- (h) Define ethnicity.
- (i) Name two major tribal groups of Arunachal Pradesh.
- (j) Write two characteristics of cultural region.

3. Answer any *four* of the following questions : $5 \times 4 = 20$

- (a) Explain the concept of geopolitics.
- (b) Distinguish between Cultural landscape and Cultural region.
- (c) Mention the concept of colonialism and neo-colonialism in geographical study.

(3)

(d) Mention the major causes of border conflict in North-Eastern region of India.

(e) What are the key points of Rimland theory?

(f) Explain the concept of Human Development. How is it measured?

(g) What are the different types of culture? Give examples.

(h) Explain how diversity of social groups are linked with various geo-environmental conditions.

4. Answer any *one* of the following questions : 10

(a) Define cultural geography. Explain the scope of cultural geography and its changing trend in present global context. $2 + 8 = 10$

(b) Explain the concept of Nation and State. Mention the major global issues that lead to conflicts among various nations of the world. $4 + 6 = 10$

(4)

- (c) Discuss the Mackinder's Heartland Theory and its present-day validity.
- (d) Define social geography as a significant branch of Human Geography. Explain the scope and approaches of studying social geography. 4+6=10
