



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY

Question Paper

B.SC. Honours Examinations 2022

(Under CBCS Pattern)

Semester - IV

Subject: GEOGRAPHY

Paper: C-8 T

(Regional Planning and Development)

Full Marks : 60

Time : 3 Hours

*Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.*

Group - A

Answer any *five* from the following questions.

2×5=10

1. What is propulsive farms?
2. What is planning?
3. Define functional Regions.
4. What is meant by growth centres in regional development?
5. Write a short note on Rostow's Take off stage.

6. What is meant by nodal region?

7. What is Metropolis?

8. What is regional inequality?

Group - B

Answer any *four* from the following questions.

5×4=20

9. What are the need and measures for balanced development in India?

10. Differentiate between regional growth and regional development.

11. What are the disadvantages of centralized and decentralized planning?

12. Write a short note on Urban Agglomeration.

13. Write a short note on Friedman's model of regional development.

14. What are the features of underdevelopment?

Group - C

Answer any *three* from the following questions.

10×3=30

15. "Country so diverse like India needs multi-level planning for its development" — Justify the statement.

16. Justify the indicators of social and environmental development.

17. Define formal regions. Mention the different methods of its delineation.

18. Discuss about the concept and strategies of regional development with special reference to India.

19. Differentiate between core periphery model of Hirschman and Cumulative Causation model of Myrdal.



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Question Paper

B.Sc. Honours Examinations 2022

(Under CBCS Pattern)

Semester - IV

Subject: GEOGRAPHY

Paper: C-9 T

(Economic Geography)

Full Marks : 60

Time : 3 Hours

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Group - A

Answer any *five* from the following questions.

2×5=10

1. Define economic man.
2. What do you mean by break of bulk point?
3. Define quinary activity.
4. Define critical isodapane.
5. What is material index?

6. Define footloose industry.
7. What is Dedicated Freight Corridor?
8. What is the hinterland of a port?

Group - B

Answer any *four* from the following questions.

5×4=20

9. Briefly discuss different types of transport cost with examples from various modes of transportation.
10. Write about the importance of railways in economic development of India.
11. Discuss the role of trade and transport in economic development.
12. Why fishing industry is less developed in tropical region in compared to temperate region?
13. Discuss major features of subsistence farming.
14. Elucidate the major principles and functions of OPEC.

Group - C

Answer any *three* from the following questions.

10×3=30

15. Briefly discuss the land use model of Von Thunen with special emphasis on the concept of economic rent.
 16. Discuss about the advantages and disadvantages of SEZ.
 17. Discuss the causes of rapid depletion of forest resources in present days. Write about the measures to conserve forest.
 18. Briefly describe the problems and prospects of tea plantation in India.
 19. Elucidate the growth and development of Iron and Steel industry in India.
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Question Paper

B.Sc. Honours Examinations 2022

(Under CBCS Pattern)

Semester - IV

Subject: GEOGRAPHY

Paper: C-10 T

(Environmental Geography)

Full Marks : 40

Time : 2 Hours

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Group - A

Answer any *four* from the following questions.

5×4=20

1. Define ecosystem. What are the major components of an ecosystem? 5
2. What is Wetland? Write down the necessity of wetlands conservation. 5
3. How does urban waste effect on terrestrial and marine ecosystem? 5
4. Distinguish between environmental pollution and degradation. What are the remedial measures to control water pollution? 2+3

5. Briefly explain the systematic approach in Environmental Geography with suitable example.

5

6. What are the major environmental problems in Polar Regions? What is 'Carbon Trading'?

3+2

Group - B

Answer any *two* from the following questions.

10×2=20

7. Elucidate the changing nature of man-environment relationship in different phases of civilisation.

10

8. What is air pollution? What are the major consequences of air pollution on human being and environment?

10

9. Briefly discuss the major processes of urban waste management.

10

10. What is climate change? What are the adverse effects of climate change on natural environment?

10



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Question Paper

B.Sc. Honours Examinations 2022

(Under CBCS Pattern)

Semester - IV

Subject: GEOGRAPHY

Paper: SEC-2 T

Full Marks : 40

Time : 2 Hours

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

(Research Methods)

Group - A

Answer any *four* from the following questions.

5×4=20

1. Write the significance of literature review in geographical research.
2. What is referencing? How does it differ from bibliography?
3. What do you mean by Hypothesis? Why hypothesis building is necessary in geographical research?
4. Mention the graphical techniques of geographical data representation with examples.

5. Write the significance of abstract and keywords in a research paper.
6. Mention different sources of geographical data.

Group - B

Answer any *two* from the following questions.

10×2=20

7. Narrate the methods of primary data collection with suitable examples.
 8. Briefly discuss the ethical principles involved in geographical research.
 9. Elaborate standard structure of a research report with examples.
 10. Explain the various techniques of quantitative data analysis in geography with examples.
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(3)
OR

(Advanced Spatial Statistical Techniques)

Group - A

Answer any *four* from the following questions.

5×4=20

1. Distinguish between descriptive and inferential statistics.
2. Compare random sampling with non-random sampling.
3. Describe the term "Probability Distribution". How does the Binomial Distribution differ from the Poissons Distribution?
4. Differentiate parameters from statistics.
5. Write the importance of Time Series analysis in geographical study.
6. Write the fundamental principles of least square method for addressing regression problem.

Group - B

Answer any *two* from the following questions.

10×2=20

7. Write short note on multi-variate analysis and its importance in geographic studies.
 8. Define normal probability distribution. Explain the properties of a Standard Normal Curve with proper illustration.
 9. Briefly describe the principles of selecting suitable methods of probability sampling based on the nature of the population.
 10. Explain different types of correlation with suitable examples.
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UG/2nd Sem/Geo/H/19

2019

B.Sc.

2nd Semester Examination

GEOGRAPHY (Honours)

Paper - GE2T

Full Marks : 60

Time : 4 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *ten* questions.

10×2=20

1. What is EMS ? 2
2. Define NDVI. 2
3. What do you mean by atmospheric window ? 2
4. What is meant by georeferencing ? 2
5. Define Geoid. 2

[Turn Over]

(2)

6. Define spatial resolution. 2
7. Name the sensors of Landsat 8 satellite. 2
8. What is histogram equalization ? 2
9. What are 'almanac' and 'ephemeris' associated with GPS ? 2
10. What is meant by band rationing ? 2
11. What is GNSS ? 2
12. What are the basic data types in spatial technology ? 2
13. Mention the major applications of vegetation indices in spatial analysis. 2
14. What is image enhancement ? 2
15. What do you mean by Stereo photography ? 2

Group - B

Answer any *four* questions. 4×5=20

1. Discuss the various techniques of Image Enhancement. 5

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(3)

2. What is vector data structure ? Discuss its topology, advantages and disadvantages. 1+4=5
3. Discuss the various modes of energy interaction of incoming radiations in atmosphere. 5
4. Give a brief account on UTM. Mention the advantages of using UTM map projection in RS and GIS. 3+2
5. Briefly state the utilities of Google Earth Engine. 5
6. What is resolution ? Mention the types of resolution. What are the basic application of cartosat series satellites ? 2+1+2=5

Group - C

Answer any *two* questions. 2×10=20

1. What is spectral signature ? Explain the spectral signatures of water, soil and vegetation with suitable diagrams. 2+8
2. Examine the scope of geospatial technology in disaster management in present days. Mention the scope of GPS-based surveying in the discipline of Geography. 6+4

[Turn Over]

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3. How satellite images are classified using 'cluster analysis' algorithm in Unsupervised classification. Distinguish cartodem with SRTM DEM. Mention the role of Bhuvan web platform in the field of research. 5+3+2
4. Discuss the recent development of Web-based spatial platforms with special reference to Bhuvan web portal. What is Non-spatial data ? What is Normalised Difference vegetation Index ? 6+2+2

বঙ্গানুবাদ

বিভাগ ক

যে কোন দশটি প্রশ্নের উত্তর দাও : $10 \times 2 = 20$

- ১। 'EMS' কী? ২
- ২। 'NDVI' এর সংজ্ঞা দাও। ২
- ৩। বায়ুমণ্ডলীয় জানালা বলতে কী বোঝা? ২
- ৪। 'Georeferencing' বলতে কী বোঝায়? ২
- ৫। 'Geoid' এর সংজ্ঞা দাও। ২

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- ৬। স্থানিক রেজোলিউশান' এর সংজ্ঞা দাও। ২
- ৭। ল্যান্ডস্যট উপগ্রহের সেন্সরগুলির নাম লেখো। ২
- ৮। 'Histogram equalization' কী? ২
- ৯। GPS এর 'almanac' এবং 'ephemeris' কী? ২
- ১০। 'Band rationing' বলতে কি বোঝায়? ২
- ১১। 'GNSS' হল কি? ২
- ১২। 'স্থানিক প্রযুক্তি' তে প্রাথমিক তথ্যের প্রকারগুলি কি কি? ২
- ১৩। স্থানিক বর্ণনাতে Vegetation Indices এর মুখ্য ব্যবহারগুলি উল্লেখ কর। ২
- ১৪। Image Enhancement বলতে কি বোঝ? ২
- ১৫। Stereo Photography বলতে কি বোঝ? ২

বিভাগ খ

যে কোন চারটি প্রশ্নের উত্তর দাও : $8 \times 5 = 20$

- ১। Image Enhancement এর বিভিন্ন পদ্ধতিগুলি আলোচনা কর। ৫

[Turn Over]

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(6)

- ২। Vector data structure কি? এর topology, সুবিধা ও অসুবিধাগুলি আলোচনা কর। ১+৪=৫
- ৩। আগত সৌররশ্মির বায়ুমণ্ডলে energy interaction এর বিভিন্ন দিকগুলি আলোচনা কর। ৫
- ৪। 'UTM' এর সংক্ষিপ্ত বিবরণ দাও। 'RS' এবং 'GIS' এ 'UTM' মানচিত্র অভিক্ষেপ ব্যবহারের সুবিধাগুলি উল্লেখ কর। ৩+২=৫
- ৫। 'Google Earth Engine' এর ব্যবহারগুলি লেখো। ৫
- ৬। 'Resolution' কি? Resolution এর প্রকারভেদগুলি উল্লেখ কর। Cartosat সিরিজ Satellite এর প্রাথমিক ব্যবহারগুলি কি কি? ২+১+২=৫

বিভাগ গ

যে কোন দুটি প্রশ্নের উত্তর দাও : ২×১০=২০

- ১। 'Spectral signature' কী? উপযুক্ত চিত্রসহ জল, মৃত্তিকা ও গাছের 'spectral signatures' গুলি ব্যাখ্যা কর। ২+৮
- ২। বর্তমান সময়ে দুর্যোগ ব্যবস্থাপনায় ভূ-স্থানিক প্রযুক্তির সুযোগগুলি পরীক্ষা করো। ভূগোলে GPS ভিত্তিক জরিফ কার্যের সুযোগগুলি উল্লেখ করো। ৬+৪

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- ৩। 'Unsupervised Classification' এ 'Cluster Analysis' পদ্ধতির মাধ্যমে কিভাবে উপগ্রহ চিত্রের শ্রেণীবিন্যাস করা যায়? Carto DEM এবং SRTM DEM এর মধ্যে পার্থক্য বর্ণনা কর। গবেষণার ক্ষেত্রে Bhuvan Web platform এর ভূমিকাগুলি উল্লেখ কর। ৫+৩+২=১০
- ৪। Web-based platforms হিসাবে বর্তমানে Bhuvan Web-Protal এর উন্নতি ও গুরুত্ব লেখ। Non-Spatial data কি? Normalised Difference Vegetation Index কি? ৬+২+২=১০

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Question Paper

B.Sc. Honours Examination 2023

(Under CBCS Pattern)

Semester — II

Subject : GEOGRAPHY

Paper : C-3T

(Human Geography)

Full Marks : 60

Time : 3 hours

*Candidates are required to give their answers
in their own words as far as practicable.*

The figures in the margin indicate full marks.

Answer from **all** the Groups as directed.

GROUP—A

1. Answer *any ten* from the following questions :
2×10=20

(a) What is baby boom?

(2)

- (b) Define culture.
- (c) Specify the elements essential to identify a race.
- (d) Define ethnic group.
- (e) Give two advantages of population explosion.
- (f) Define life expectancy.
- (g) Define economic man.
- (h) Define infant mortality rate.
- (i) What is an urban fringe?
- (j) Give any two characteristic features of subsistence farming.
- (k) Define the term 'space'.
- (l) How does nucleated settlement differ from dispersed settlement?
- (m) What is a language tree?
- (n) What are the food habits of Jarawa tribe?
- (o) Mention the characteristics of first stage demographic transition model.

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(Continued)

(3)

GROUP—B

Answer *any four* from the following questions :
5×4=20

- 2. Discuss the contemporary relevance of human geography.
- 3. Mention the major characteristics of food gathering societies.
- 4. Differentiate between race and ethnicity.
- 5. Write a brief note on cultural regime.
- 6. Discuss the problems of Masai community.
- 7. Differentiate between urban and industrial society.

GROUP—C

Answer *any two* from the following questions :
10×2=20

- 8. Give an account of geographical conditions responsible for the development of different types of rural settlements in India.

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(Turn Over)

(4)

9. Discuss the role of the site in determining the types and patterns of rural settlement.
10. Briefly discuss the population resource regions according to Ackerman.
11. Describe the livelihood of Eskimos.

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VIDYASAGAR UNIVERSITY

Question Paper

B.Sc. Honours Examination 2023

(Under CBCS Pattern)

Semester — II

Subject : GEOGRAPHY

Paper : C-4T

(Cartograms and Thematic Mapping)

Full Marks : 40

Time : 2 hours

*Candidates are required to give their answers
in their own words as far as practicable.*

The figures in the margin indicate full marks.

Answer from **all** the Groups as directed.

GROUP—A

Answer **any five** from the following questions :

2×5=10

1. Give the definition of decimal number.

(2)

2. How is natural log different from common log?
3. What is block diagram?
4. State the disadvantages of Pie diagram.
5. How is morphometric map different from morphochronological map?
6. What is sociograph?
7. Why is scale necessary element for diagrammatic representation of data?
8. Define chorochromatic and choroschematic maps.

GROUP—B

Answer any four from the following questions :

5×4=20

9. Briefly explain the rules of logarithm with suitable examples.
10. Give a brief account on different geomorphological serial profiles.
11. Elucidate the steps to prepare a thematic LULC map from a multispectral satellite image.

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(Continued)

(3)

12. State the advantages of large scale thematic maps.
13. Distinguish between sphere diagram and dot map.
14. What is a synoptic chart? Which and how are different quantitative and qualitative symbols used to prepare a synoptic chart?

GROUP—C

Answer any one from the following question :

15. Classify bar diagram with suitable figures. State their relative applications, merits and demerits.
5+5=10
16. State the sequential steps involved in preparing a choropleth map. Mention the precautions required while preparing an isopleth map. Distinguish between isopleth and choropleth map.
5+2+3=10

S-2/B.Sc./GEOH(C-4T)/23

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