



WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 6th Semester Examination, 2023

GEOACOR13T-GEOGRAPHY (CC13)

EVOLUTION OF GEOGRAPHICAL THOUGHT

Time Allotted: 2 Hours

Full Marks: 50

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

CATEGORY-A

Answer any two questions from the following within 600 words each 10×2 = 20

1. Describe the nature of evolution of geographical knowledge in Ancient China. How did cartographic techniques help in enrichment of geography in China? 7+3
2. Discuss the contribution of Paul Vidal-de-la Blache. Justify why Blache is called the Father of Human Geography. 7+3
3. Define critical geography. Discuss the influence of 'Quantitative Revolution' in geography. 2+8

CATEGORY-B

Answer any four questions from the following within 150 words each 5×4 = 20

4. Write a short note on contemporary version of Humanistic Geography.
5. Explain the characteristic features of Teleological Descriptive paradigm.
6. Discuss the contribution of Ratzel in geopolitics.
7. Distinguish between Idiographic and Nomothetic approach in geography.
8. Write a short note on the book Cosmos.
9. Briefly discuss the contribution of Al-Biruni in the development of geography.
10. What is Dualism in geography? Explain with suitable examples.

CATEGORY-C

Answer any *five* questions from the following within 50 words each

2×5 = 10

11. What is 'genre-de-vie'?
12. Define stop and go Determinism.
13. Why is the period from 500-1100 A.D known as Dark Age in Europe?
14. What is Mental Map?
15. State the main contributions of Eratosthenes in geography.
16. Define system approach in geographical analysis.
17. What is time-space prism?
18. What is meant by Radicalism in geography?
19. Define behavioural approach in geography.

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GEOADSE04T-GEOGRAPHY (DSE3/4)

Time Allotted: 2 Hours

Full Marks: 50

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Candidates are required to give their answers in their own words as far as practicable.
All symbols are of usual significance.*

CATEGORY-A

Answer any two questions from the following within 600 words each 10×2 = 20

1. What do you mean by hydrological Cycle? Discuss global hydrological cycle with diagram. 2+8
2. What is a drainage basin? Write briefly the objectives and principles of watershed management. 2+8
3. Describe about the formation of major relief features of ocean floor in the light of plate tectonics. What is Fjord coast? 8+2

CATEGORY-B

Answer any four questions from the following within 150 words each 5×4 = 20

4. Describe the different phases of run-off cycle as suggested by Hoyt.
5. Differentiate between soil porosity and permeability.
6. What are the different ways of escape of water as vapour from the earth to the atmosphere?
7. Why is the salinity of the Mediterranean Sea being higher than the Atlantic Ocean?
8. Discuss the significance of a T-S-diagram.
9. Briefly describe the causes of sea-level change.
10. State the impact of Ice-age on hydrological cycle.

CATEGORY-C

Answer any *five* questions from the following within 50 words each

2×5 = 10

11. What do you mean by piezometric surface?
12. What is halocline?
13. What do you mean by water harvesting?
14. What is subduction zone?
15. Define deep sea trenches.
16. What is aquitard?
17. What do you mean by vadose zone?
18. What is diatom?
19. Explain the Darcy's law.

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GEOADSE06T-GEOGRAPHY (DSE3/4)

Time Allotted: 2 Hours

Full Marks: 50

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FOR REGULAR SYLLABUS

CATEGORY-A

1. Answer any *two* questions from the following: (within 600 words each) 10×2 = 20
- (a) How economic development becomes the constraint towards conservation of environmental resources? Explain the role of fossil fuels in this regard. 8+2
- (b) Why community based adaptation is an important and essential approach for resource utilisation? What are the problems associated with the depletion of forest resources in India? 6+4
- (c) Elucidate the concept of 'limit to growth'. Highlight some important strategies of the management of Mineral resources. 3+7

CATEGORY-B

2. Answer any *four* questions from the following: (within 150 words each) 5×4 = 20
- (a) How human being play a dual role as the creator and destroyer of the resources?
- (b) Explain the concept of sustainable resource development.
- (c) The depleting water resources may lead to conflicts and disputes globally. Explain.
- (d) Discuss the geographical distribution of Bauxite in India.
- (e) Explain with examples the dynamic nature of resource in respect of changing space and time.
- (f) Explain the contemporary global issue of energy crisis.
- (g) What are the major differences between renewable and non-renewable resources?

CATEGORY-C

3. Answer any *five* questions from the following: (within 50 words each) 2×5 = 10
- (a) Highlight the concept of social forestry.
- (b) What are fund resources?
- (c) What is the necessity of resource sharing?
- (d) What do you mean by 'water foot print'?
- (e) What do you mean by "potential resources"?

- (f) Discuss the major concept of 'Namami Gange Programme'.
- (g) What is the utility of recycling of resource?
- (h) 'Solar energy' may be the only possible substitute of conventional energy. — Explain.
- (i) What is the use of geo-thermal energy?

FOR TRUNCATED SYLLABUS

CATEGORY-A

1. Answer any *two* questions from the following: (within 600 words each) 10×2 = 20
- (a) Discuss the role of India in the realization of Water Sharing attempt to mitigate regional water crisis. What are its limitations? 6+4
 - (b) Discuss about the major problems associated to resource depletion in global scale. Mention the conservation strategies to mitigate the above mentioned problems. 6+4
 - (c) Why community based adaptation is an important and essential approach for resource utilisation? What are the problems associated with the depletion of forest resources in India? 6+4

CATEGORY-B

2. Answer any *four* questions from the following: (within 150 words each) 5×4 = 20
- (a) How human being play a dual role as the creator and destroyer of resources?
 - (b) State the distribution and utilization of Bauxite ore in India.
 - (c) Classify resources with suitable examples.
 - (d) What is meant by recycling of resources? Explain with suitable examples.
 - (e) Explain the contemporary global issue of energy crisis.
 - (f) Explain the role of Indian rural community in conservation attempts of natural resources.
 - (g) What are Fossil Fuels? Why are they named so? 3+2

CATEGORY-C

3. Answer any *five* questions from the following: (within 50 words each) 2×5 = 10
- (a) Mention two conservation measures of non renewable resources.
 - (b) What is social forestry?
 - (c) What is Phantom pile? Explain with diagram.
 - (d) Discuss the major concept of 'Namami Gange Programme'.
 - (e) What are the principles of sustainable development?
 - (f) What do you mean by potential resources?
 - (g) Mention the problems of iron-ore production in India.
 - (h) What is the utilization approach to resource utilization?
 - (i) Define fund resources.

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GEOACOR14T-GEOGRAPHY (CC14)

Time Allotted: 2 Hours

Full Marks: 40

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Candidates should answer in their own words and adhere to the word limit as practicable.*

**FOR REGULAR SYLLABUS
DISASTER MANAGEMENT**

CATEGORY-A

Answer any *one* question from the following (within 600 words) 10×1 = 10

1. Highlight the responses to hazards with reference to preparedness, trauma and aftermath. Explain resilience and capacity building as responses to hazards. 6+4
2. What are the major causes of occurring landslide in North-Western Himalayan region? How can we reduce the worse effect of landslide by proper management? 6+4

CATEGORY-B

Answer any *four* questions from the following (within 150 words each) 5×4 = 20

3. What are the consequences of radio-active hazard?
4. What is the meaning of hazard mapping and how important is it for disaster preparedness? 2+3
5. Briefly discuss the key features of the National Disaster Management Act, 2005.
6. Briefly discuss the community-based risk assessment model.
7. Distinguish between 'quasi natural' and 'man made' hazards with examples.
8. Describe the factors favouring the development of tropical cyclone.
9. Briefly discuss the impact of storm surge in the coastal region during a tropical cyclone.

CATEGORY-C

Answer any *five* questions from the following 2×5 = 10

10. Give the names of data sources for preparing hazard maps.
11. State the difference between risk and vulnerability.
12. What is Richter scale?
13. Define resilience in hazard management.
14. Mention how α particles and β particles (Alpha and Beta) damage the human body.

15. Define seismic gap.
16. What is meant by vulnerability assessment?
17. Define meteorological hazard with example.
18. What is capacity building in hazard management?

FOR TRUNCATED SYLLABUS

REMOTE SENSING AND GIS

CATEGORY-A

Answer any *one* question from the following within 600 words 10×1 = 10

1. What do you mean by visible spectrum? How do you prepare a Standard False Colour Composite (FCC)? Describe the processes of Land use and Land cover classification using multispectral (MSS) images. 3+3+4
2. What are the different segments of GNSS? Describe each segment in brief. 2+8

CATEGORY-B

Answer any *four* questions from the following within 150 words each 5×4 = 20

3. Distinguish between spatial and non-spatial data with examples.
4. What is passive remote sensing?
5. Mention the types of sensors and their resolutions used in Indian Remote Sensing (IRS) satellites.
6. State the role of colour, tone and texture in image interpretation.
7. Differentiate between raster and vector data format.
8. Distinguish between geo-coding and geo-referencing.
9. What is the importance of GNSS as a tool for surveying?

CATEGORY-C

Answer any *five* questions from the following within 50 words each 2×5 = 10

10. Define Swath.
11. What is pixel?
12. What is thermal remote sensing?
13. Define atmospheric window.
14. Compare Landsat TM and OLI data.
15. What do you mean by overlay analysis in GIS?
16. Mention different types of vector layers.
17. Why attribute table is required in GIS?
18. How many satellites are needed for a GPS device to start navigating?

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GEOADSE05T-GEOGRAPHY (DSE3/4)

Time Allotted: 2 Hours

Full Marks: 50

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CATEGORY-A

Answer any two questions from the following (within 600 words each) 10×2 = 20

1. State the role of Caste, Religion and Gender in Social Segregation of Indian Society. 10
2. Briefly highlight the important features of social planning during 'Five year plan' in India. 10
3. What do you mean by inclusion? Discuss the different inclusion process of tribals in Indian context. 2+8

CATEGORY-B

Answer any four questions from the following (within 150 words each) 5×4 = 20

4. Briefly discuss social stratification.
5. State the nature and scope of social geography.
6. What are the characteristics of slum region?
7. Distinguish between communal conflict with social crime.
8. What are the typical amenities offered by Gated Communities?
9. Do you consider economic status as an indicator of social well-being?
10. Discuss briefly the rural-urban housing disparity.

CATEGORY-C

Answer any *five* from the following (within 50 words each)

2×5 = 10

11. What is social distance?
12. Differentiate between relative and absolute space.
13. State any four steps of an effective Social Impact Assessment.
14. What do you mean by exclusion?
15. Mention two criteria of 'Quality of life'.
16. State the role of technology in social advancement.
17. State the social problems faced by slum population.
18. What are the main problem of Indian slums?
19. What do you mean by 'peopling'?

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