



WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 6th Semester Examination, 2021

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.*

CATEGORY-A

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

1. Explain the origin and development of systems approach in geography. 10
2. Name the major proponents of environmental determinism and discuss their contributions in the development of this paradigm. How does possibilism differ from environmental determinism? 7+3
3. How do dualism and dichotomy prevail in Geography? Explain with example(s). 10

CATEGORY-B

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

4. Describe the background for the emergence of radical geography.
5. What is an Inductive Method of study? How did great philosopher Aristotle practice inductive method in his observation?
6. What are the merits and demerits of Quantitative Revolution in Geography?
7. Why Alexander Von Humboldt is regarded as the “Father of modern geography”?
8. Why behavioural and radical geography are known as critical geography? Describe the significance of radical approach in contemporary geography.
9. Differentiate between human geography and humanistic geography.
10. Briefly discuss the contribution of Chinese scholars of Geography during medieval period.

CATEGORY-C

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

2×5 = 10

11. What is Neo-determinism?
12. Define logical positivism.
13. What is social Darwinism?
14. Outline the Voyage route of Vasco-da-Gama to India.
15. Name two British geographers who contributed to the development of regional geography.
16. Give one example of closed system and one example of open system from geography.
17. What is Pragmatism?
18. Name the authors of the following books:
'Geography as Human Ecology' and 'India and Pakistan – A General and Regional Geography'.
19. Distinguish between 'Kenos' and 'Cosmos'.

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 6th Semester Examination, 2021

GEOACOR14T-GEOGRAPHY (CC14)

Time Allotted: 2 Hours

Full Marks: 40

*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 *one* question from the following (within 600 words)

10×1 = 10

1. What is an Electromagnetic spectrum? Explain how the electromagnetic spectrum interacts with the earth's atmosphere. 4+6
2. What is the standard false colour composite (FCC)? How the band combination changes in preparing the standard FCC from IRS and Landsat images? 4+6

CATEGORY-B

Answer any *four* questions from the following (within 150 words each)

5×4 = 20

3. State the merits and demerits of raster data format.
4. Explain the importance of spectral and radiometric resolution in digital image interpretation.
5. What are the orbital characteristics of GPS satellites?
6. What is image classification? Differentiate between the two methods of image classification.
7. How GIS is related to database management systems?
8. Discuss the importance of overlay analysis in geographical studies.
9. Explain how spatial data and attribute data integrate to make a GIS.

CATEGORY-C

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

2×5 = 10

10. Define atmospheric window.
11. What is Pixel? What are the units of measurements?
12. What is the role of sensors in a satellite?
13. Differentiate 2-bit and 8-bit image.
14. What are the wavelengths of Green, Red, and Near IR radiation?
15. Why Landsat 8 TM satellite data is more useful than Landsat 1 MSS data to prepare a LULC map of an urban area?
16. Which band combination is required to prepare standard FCC from IRS LISS III data?
17. What is PRN code?
18. What is differential GPS?

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WEST BENGAL STATE UNIVERSITY
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GEOADSE04T-GEOGRAPHY (DSE3/4)

HYDROLOGY AND OCEANOGRAPHY

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. Give a brief account of the global hydrological cycle. How does change in climate affect the global hydrological cycle? 6+4
2. Discuss the significance of drainage basin as a hydrological unit. Assess the components of surface runoff. 6+4
3. How can the theory of Plate tectonics explain relief differentiation of the ocean floors? What is meant by halocline? 8+2

CATEGORY-B

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

4. Illustrate the principles of watershed management. 5
5. Differentiate between porosity and permeability. 5
6. Describe how geomorphology controls groundwater storage. 5
7. Explain the movement of groundwater with Darcy's Law. 5
8. Define a water mass and discuss its classification. 5
9. Discuss the significance of a T-S diagram. 5
10. Explain the sources of heat in the ocean water. 5

CATEGORY-C

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

2×5 = 10

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| 11. | Define evapotranspiration. | 2 |
| 12. | What is a unit hydrograph? | 2 |
| 13. | Define hydraulic head. | 2 |
| 14. | What is a perched water table? | 2 |
| 15. | What is transform fault? | 2 |
| 16. | What is meant by the physical properties of sea water? | 2 |
| 17. | Write the names of two dominant salts found in ocean water. | 2 |
| 18. | Define a thermocline layer. | 2 |
| 19. | What is a pycnocline? | 2 |

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WEST BENGAL STATE UNIVERSITY
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GEOADSE05T-GEOGRAPHY (DSE3/4)

SOCIAL GEOGRAPHY

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. What do you mean by 'social space'? Explain how the concept of space has evolved from absolute to relational space? 4+6
2. Define Caste and write the different characteristics of caste in Indian society. 3+7
3. Elaborate the concept of social well-being with particular reference to developing countries. 10

CATEGORY-B

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

4. Assess the importance of 'Education' as a measure of social well-being.
5. What are the characteristics of social stratification in Indian society?
6. Write a short note on social groups.
7. What are the advantages and disadvantages experienced by a Gated Community?
8. Define slums. What are the main problems of slums in India?
9. What is 'Quality of Life'? Briefly discuss the indicators of 'Quality of Life'.
10. Assess the importance of Social Impact Assessment.

CATEGORY-C

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

2×5 = 10

11. Differentiate 'Caste' from 'Class'.
12. Define Social Behavior.
13. Write the name of two big slums in India.
14. Identify the factors influencing the increasing rate of urban crime.
15. What are the characteristics of an urban slum?
16. What is Socio-cultural Region?
17. Define Social Hierarchy.
18. Mention two characteristics of social groups.
19. What do you mean by communal conflicts?

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WEST BENGAL STATE UNIVERSITY
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GEOADSE06T-GEOGRAPHY (DSE3/4)

RESOURCE GEOGRAPHY

Time Allotted: 2 Hours

Full Marks: 50

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CATEGORY-A

1. Answer any **two** questions from the following: (within 600 words each) 10×2 = 20
- (a) What are the different approaches of Resource Conservation? How can the conservational approaches be incorporated to the community-based initiatives in rural areas? Explain with examples. 4+6
- (b) Why community-based adaptation is an important and essential approach for resource utilization? 10
- (c) Highlight the major problems that are associated to resource depletion in global scale. How does deforestation affect the resource reserves and chalk out its conservation strategies to minimize such depletion? 4+6

CATEGORY-B

2. Answer any **four** questions from the following: (within 150 words each) 5×4 = 20
- (a) Give a brief account of the utilisation of conventional energy resources scenario of India.
- (b) What are the different ways to conserve natural resources?
- (c) What do you understand by fossil fuels? Explain with examples.
- (d) Suggest measures for conservation of non-renewable resources.
- (e) What are the different types of strategies to support water conservation in the world?
- (f) How does the water dispute in association to Kaveri River become a conflict between states of peninsular India?
- (g) “Humans are resources, at the same time they are creators and destroyers of the same” — Explain.

CATEGORY-C

3. Answer any *five* questions from the following: (within 50 words each) 2×5 = 10
- (a) What is water-sharing system?
 - (b) Define economic growth.
 - (c) Mention the importance of the place Kudankulum of Tamil Nadu in terms of non-conventional energy resources.
 - (d) Describe culture as resource creating factor.
 - (e) What are the uses of iron-ore?
 - (f) Suggest measures to combat conventional resource scarcity.
 - (g) What is agro-forestry?
 - (h) State advantages of community adaptive resource management.
 - (i) Mention four key approaches of resource utilization.

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