

PG-CS-1140 MGEOS-11

**P.G. DEGREE EXAMINATION —
FEBRUARY 2023.**

Geography

First Semester

PROCESSES OF GEOMORPHOLOGY

Time : 3 hours

Maximum marks : 70

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions in 300 words.

- 1. Explain the scope and contents of Geomorphology.**
- 2. Describe about Isostasy with a neat sketch.**
- 3. Write a short note on Chemical Weathering.**
- 4. Give a brief account on the depositional landforms of a glacier.**
- 5. Discuss the importance of Geomorphology in River regulation.**
- 6. Explain the salient features of Geological Structure and landforms.**

7. Write a note on Mechanical Weathering.
8. List out and explain the landforms produced by coastal deposition

PART B — (3 × 15 = 45 marks)

Answer any THREE questions in 1000 words.

9. Write an essay on the basic concepts of Geomorphology.
 10. Give a detailed account on Vulcanicity and its results.
 11. Describe the meaning and types of Mass movement.
 12. Explain about the landforms of a Fluvial action.
 13. Discuss the role of geomorphology on mineral exploration.
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PG-CS-1141 MGEOS-12

**P.G. DEGREE EXAMINATION —
FEBRUARY 2023.**

Geography

First Semester

CLIMATOLOGY AND HYDROLOGY

Time : 3 hours

Maximum marks : 70

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions in 300 words.

1. Give a short note on the structure of the atmosphere.
2. Illustrate and explain the Air-Masses.
3. Discuss the causes and consequences of drought.
4. Describe the physio-chemical characteristics of water.
5. Explain the significance of groundwater recharge.
6. Describe about the Heat Budget of the earth.

7. Differentiate - Tropical and temperate Cyclones.
8. Explain the effects of green house gases.

PART B — (3 × 15 = 45 marks)

Answer any THREE questions in 1000 words.

9. Write an essay on the pressure belts of the World with a neat sketch.
10. Explain in detail about the upper air circulation with suitable illustrations.
11. Describe the factors of climate change and give suggestions to overcome the crisis.
12. Give a detailed note on hydrological cycle and its elements with a diagram.
13. Discuss the various pollutions and its effects.

PG-CS-1142 MGEOS-13

**P.G. DEGREE EXAMINATION —
FEBRUARY 2023.**

Geography

First Semester

ENVIRONMENTAL GEOGRAPHY

Time : 3 hours

Maximum marks : 70

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions in 300 words.

- 1. Explain the role of Geography on Environmental Studies.**
- 2. Illustrate and explain about the functions of energy flow.**
- 3. Write a note on atmospheric pollution.**
- 4. Explain about Brundtland Commission.**
- 5. Describe the relationship between man and environment.**
- 6. Illustrate and explain about the nitrogen cycle.**

7. Write a brief note on atmospheric pollution.
8. Give an account on Kyoto Protocol

PART B — (3 × 15 = 45 marks)

Answer any THREE questions in 1000 words.

9. Differentiate and Explain: Determinism, Possibilism and Neo Determinism.
 10. Explain about the Food chain, Food web and Ecological Pyramid with suitable sketches.
 11. Describe the cause and consequences of water pollution.
 12. Discuss the role of international Programmes and Policies on environmental protection.
 13. Write an essay on Global Warming.
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**P.G. DEGREE EXAMINATION —
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Geography

First Semester

ADVANCED CARTOGRAPHY

Time : 3 hours

Maximum marks : 70

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions in 300 words.

1. Explain the uses and purpose of projections.
2. Describe the importance of typography in cartography.
3. Write a brief note on map icon design.
4. Give a short note on Multivariate Mapping.
5. Explain the significances of visual hierarchy for a map.
6. Write a short note on Cartograms.

7. Give a note on Web Mapping.
8. Describe about the Mobile Maps.

PART B — (3 × 15 = 45 marks)

Answer any THREE questions in 1000 words.

9. Write an essay on the various type of projections and their specific usages.
 10. Explain the importance of Design and Aesthetics in mapping process.
 11. Describe the methods involved on spatiotemporal representation with a neat sketch.
 12. Give an account on Geo-Visualization.
 13. Discuss the historical development of map production.
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**P.G. DEGREE EXAMINATION —
FEBRUARY 2023.**

Geography

First Semester

**CLIMATE CHANGE VULNERABILITY AND
ADAPTATION**

Time : 3 hours

Maximum marks : 70

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions in 300 words.

1. Give short notes on Global Warming.
2. Brief the Understanding of climate change.
3. What is the Economic Vulnerability?
4. Analyse the impacts of Climate Change on Fauna in India.
5. Compare Climate change and Coastal degradation.
6. Give short notes on the methods of Vulnerability Assessment.

7. Shortly explain about National Action Plan on Climate Change.
8. Mention the mitigation measure responsibilities to Urban Local Bodies.

PART B — (3 × 15 = 45 marks)

Answer any THREE questions in 1000 words.

9. Explain in detail about Global Climatic Assessment- IPCC.
 10. Analyse the Physical Vulnerability and Climate Change.
 11. Explain in detail about the Climate Change Impact on Human Health.
 12. Describe the information sources and output of Vulnerability Assessment.
 13. Explain in detail about National Action Plan on Climate Change.
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PG-CS-1145 MGEOS-21

**P.G. DEGREE EXAMINATION —
FEBRUARY 2023.**

Geography

Second Semester

AGRICULTURAL GEOGRAPHY

Time : 3 hours

Maximum marks : 70

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions in 300 words.

1. Give short notes on scope of Agricultural Geography.
2. What are the Approaches to the study of Agricultural Geography?
3. What are the technological determinants of agricultural land use?
4. Write a short note on Pink Revolution.
5. Brief Von Thune's theory to the present-day location of agricultural activities.

6. Describe the Role of Remote Sensing in Land Use Studies.
7. Give an account on Regional variations in Agricultural Productivity.
8. Give short notes on Doi's method of Crop Diversification.

PART B — (3 × 15 = 45 marks)

Answer any THREE questions in 1000 words.

9. Explain in detail about the Approaches to the study of Agricultural Geography.
10. Describe the Social and technological determinants of Agricultural Land Use.
11. Explain Von Thune's theory of agricultural location and its recent modifications
12. Describe the agricultural regions of India and Tamil Nadu.
13. Elaborate in detail about Rafiullah's methods of delineating crop combination regions.

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**P.G. DEGREE EXAMINATION —
FEBRUARY 2023.**

Geography

Second Semester

URBAN GEOGRAPHY

Time : 3 hours

Maximum marks : 70

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions in 300 words.

1. Give short notes on nature of Urban Geography.
2. What are the Factors affecting urban growth.
3. Describe Demographic Composition.
4. Give short notes on Population Features of Cities.
5. Give short notes on Burgess and Hoyt Model of Urban land use.
6. Give short notes on Harris and Ullman Model of Urban land use..

7. Brief note on Umland demarcation.
8. Shortly Urban problems in Transport in Tamil Nadu.

PART B — (3 × 15 = 45 marks)

Answer any THREE questions in 1000 words.

9. Explain in detail about the Urbanization in the India.
 10. Explain in detail about the Central business district and its Delimitation.
 11. Explain in detail about the Functional classification of cities.
 12. Give detailed account on how Urban hierarchy.
 13. Explain in detail the Sustainable of City and Smart City Project in India.
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PG-CS-1147 MGEOS-23

**P.G. DEGREE EXAMINATION —
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Geography

Second Semester

REMOTE SENSING

Time : 3 hours

Maximum marks : 70

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions in 300 words.

- 1. Give short notes on history of Remote Sensing.**
- 2. Shortly explain Remote Sensing Platforms.**
- 3. Describe the Image rectifications.**
- 4. Give short notes on Image restoration.**
- 5. Give short notes on the importance of Supervised Classification.**
- 6. Brief note on Object-Based Image Analysis (OBIA).**

7. Give short notes about Aerial Image Interpretation.
8. Shortly explain the Remote Sensing applications in Water Resources.

PART B — (3 × 15 = 45 marks)

Answer any THREE questions in 1000 words.

9. Define Remote Sensing. Write a detailed account on EMR interaction with Earth Surface.
10. Describe Image enhancement techniques Explain in detail, how Image rectifications and corrections are carried out in Digital Image Processing?
11. Broadly explain methods of unsupervised classifications.
12. Explain in detail the elements of Visual Image Interpretation.
13. Elaborate the Remote Sensing applications in Disaster Management.

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**P.G. DEGREE EXAMINATION —
FEBRUARY 2023**

Geography

Second Semester

QUANTITATIVE TECHNIQUES IN GEOGRAPHY

Time : 3 hours

Maximum marks : 70

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions out of Eight questions in
300 words.

All questions carry equal marks.

1. Give short notes on Measure Levels.
2. Describe Elementary Probability Theory
3. Give short notes on Random Variables.
4. Shortly explain about T test analysis.
5. What is the Use of Non-parametric Tools in Spatial Analysis?

6. Give short notes on Product Moment Correlation
7. Brief Spearman's Rank Correlation.
8. What are methodological issues in Regression Analysis?

PART B — (3 × 15 = 45 marks)

Answer any THREE questions in 1000 words.

9. Explain in detail about Measures of Central Tendency and Dispersion.
 10. Describe the Random Variables and Probability Distributions.
 11. Explain in detail about the Use of Non-parametric Tools in Spatial Analysis
 12. Explain in detail about the Areal Association and Spatial Autocorrelation.
 13. Elaborate the Trend Surface Analyses.
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