

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, NOVEMBER 2020**

(CBCSS)

Geography

GRY 1C 04—PHYSICAL GEOGRAPHY OF INDIA

(2019 Admissions)

Time : Three Hours

Maximum : 30 Weightage

**General Instructions**

1. *In cases where choices are provided, students can attend all questions in each section.*
2. *The minimum number of questions to be attended from the Section / Part shall remain the same.*
3. *There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.*

**Section A**

Write short notes on any *four* of the following. Answer should not exceed 100 words. Draw appropriate maps/diagrams wherever applicable. All questions carry equal weightage :

- 1 Westerly Jet.
- 2 The Tarai region.
- 3 Saline soil in India.
- 4 Littoral and Swamp forest.
- 5 ENSO.
- 6 The Deccan trap.
- 7 The Rann of Kutch Dispute.

(4 × 2 = 8 weightage)

**Section B**

Write short essays on any *four* of the following. Answer should not exceed 300 words. Draw appropriate maps/diagrams wherever applicable. All questions carry equal weightage :

- 8 Describe about major islands of India.
- 9 Discuss about the earthquake prone regions in India.
- 10 Explain the mineral belts in India.

**Turn over**

- 11 Describe the bio-geographical Zones of India.
- 12 Where are the flood prone regions in India ?
- 13 India is a land of diversities. Substantiate the statement.
- 14 Discuss about the coastal plains of India.

(4 × 3 = 12 weightage)

### Section C

Write essays on any *two* of the following. Answer should not exceed 500 words. Draw appropriate maps/diagrams wherever applicable. All questions carry equal weightage :

- 15 Write an essay about major River systems of India.
- 16 What are the salient features of Indian Monsoon system ?
- 17 Commend the factors influencing the climate of India.
- 18 Explain about the Himalayan Mountain System.

(2 × 5 = 10 weightage)

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, NOVEMBER 2020**

(CBCSS)

Geography

GRY 1C 03—CONCEPTS AND TRENDS IN GEOGRAPHY

(2019 Admissions)

Time : Three Hours

Maximum : 30 Weightage

**General Instructions**

1. *In cases where choices are provided, students can attend **all** questions in each section.*
2. *The minimum number of questions to be attended from the Section / Part shall remain the same.*
3. *There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.*

**Section A**

I. Write short note on any *four* of the following. Answer should not exceed 100 words. Draw appropriate maps/diagrams wherever applicable. All questions carry equal weightage :

- 1 T-O Map.
- 2 Geographica.
- 3 Innovation.
- 4 Geoinformatics.
- 5 Radicals.
- 6 Space.
- 7 Marxist.

(4 × 2 = 8 weightage)

**Section B**

II. Write short note on any *four* of the following. Answer should not exceed 300 words. Draw appropriate maps/diagrams wherever applicable. All questions carry equal weightage :

- 8 Describe geography as a science subject.
- 9 Write a brief note on fundamental concepts of aerial differentiation.
- 10 Explain about Pattison's four traditions in geography.

**Turn over**

- 11 Discuss about the uses of primary and secondary data in geographical studies.
- 12 Define Feminist geography and bring out its significance as a sub branch in human geography.
- 13 List out any four limitations of theory in geographical studies.
- 14 Explain Tobler's first law of geography.

(4 × 3 = 12 weightage)

### Section C

III. Write essay on any *two* of the following. Answer should not exceedp 500 words. Draw appropriate maps/diagrams wherever applicable. All questions carry equal weightage :

- 15 Write an essay on the nature and scope of geography.
- 16 Explain and criticize Kuhn's model of scientific revolutions.
- 17 Differentiate between regionalism and Spatial Science.
- 18 Discuss about the role of quantitative revolution in the development of geography.

(2 × 5 = 10 weightage)

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION. NOVEMBER 2020**

(CBCSS)

Geography

GRY 1C 02—CLIMATOLOGY

(2019 Admissions)

Time : Three Hours

Maximum : 30 Weightage

**General Instructions**

1. *In cases where choices are provided, students can attend **all** questions in each section.*
2. *The minimum number of questions to be attended from the Section / Part shall remain the same.*
3. *There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.*

**Section A**

- I. Write short note on any *four* of the following. Answer should not exceeding 100 words. Draw appropriate maps/diagrams wherever applicable. All questions carry equal weightage :
- 1 Inversion of Temperature.
  - 2 Define Greenhouse Effect.
  - 3 Foehn.
  - 4 Ozone depletion.
  - 5 Frost.
  - 6 La Nina.
  - 7 Tropical Cell.

(4 × 2 = 8 weightage)

**Section B**

- II. Write short essay on any *four* of the following. Answer should not exceeding 300 words. Draw appropriate maps/diagrams wherever applicable. All questions carry equal weightage :
- 8 Explain the mechanism of heat balance of the earth.
  - 9 Explain the different forms of precipitation.

**Turn over**

- 10 Bring out the difference between tropical and temperate cyclones.
- 11 Elaborate the causes and effects of global warming in the Arctic region.
- 12 Examine the influence of Walker Circulation on El Niño events.
- 13 Explain the effects of climate change on Agriculture.
- 14 Describe ITCZ.

(4 × 3 = 12 weightage)

### Section C

III. Write essay on any *two* of the following. Answer should not exceed 500 words. Draw appropriate maps/diagrams wherever applicable. All questions carry equal weightage :

- 15 Explain the concept and mechanism of Indian Monsoons.
- 16 Explain the Zonal circulation of the atmosphere.
- 17 Describe the cyclones in the Indian Ocean and its effects on Indian Topography.
- 18 Evaluate the Climatic classification of Trewartha.

(2 × 5 = 10 weightage)

**FIRST SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, NOVEMBER 2020**

(CBCSS)

Geography

GRY 1C 01—GEOMORPHOLOGY

(2019 Admissions)

Time : Three Hours

Maximum : 30 Weightage

**General Instructions**

1. *In cases where choices are provided, students can attend all questions in each section.*
2. *The minimum number of questions to be attended from the Section / Part shall remain the same.*
3. *There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.*

**Part A**

- I. Write short notes on any *four* of the following. Answer should not exceed 100 words. Draw appropriate maps/ diagrams wherever applicable. All questions carry equal weightage :

- 1 Window Bridges.
- 2 Panplain.
- 3 Congelifraction.
- 4 Pleistocene ice age.
- 5 Nappes.
- 6 Tors.
- 7 Paleogeomorphology.

(4 × 2 = 8 weightage)

**Part B**

II Write short essays on any *four* of the following. Answer should not exceed 300 words. Draw appropriate maps/ diagrams wherever applicable. All questions carry equal weightage :

- 8 What is a Fold ? Explain the various types of folds ?
- 9 Explain in detail Karst landscapes.
- 10 Explain the applications of geomorphology in hydrology.
- 11 Present is the key to the past. Justify.
- 12 What are diagnostic land forms ? Examine their role in climatic geomorphology.
- 13 Give an account of various approaches in geomorphology.
- 14 Evaluate L.C. King's Pediplanation Cycle.

(4 × 3 = 12 weightage)

**Part C**

III Write essays on any *two* of the following. Answer should not exceed 500 words. Draw appropriate maps/ diagrams wherever applicable. All questions carry equal weightage :

- 15 Write a detailed note on the glacial geomorphic processes and associated forms.
- 16 Critically evaluate A Wood's model of Slope Evolution.
- 17 Elucidate the applications of geomorphic analysis in mineral exploration.
- 18 Geological Structure is the dominant control factor in the evolution of landforms and is reflected in them. Justify.

(2 × 5 = 10 weightage)



**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2019**

(CUCSS)

Geography

GRIC01—GEOMORPHOLOGY

(2017 Admissions)

Time : Three Hours

Maximum : 36 Weightage

**Part A***Write short answer on all questions in not more than 50 words each.**Weightage 1 each.*

1. Define the term Catastrophism.
2. What do you mean by Dynamic Geomorphology ?
3. Explain the terms of Solifluction.
4. What is meant by Structural benches ?
5. State the meaning of Roches moutonnees.
6. Write a note on Yardangs.
7. Define Primarumpf.
8. Explain about the Pediplain.
9. Briefly note on Anthropogenic Geomorphology.
10. Give a note on Parallel slope retreat.

(10 × 1 = 10 weightage)

**Part B***Write paragraph on any nine of the following in not more than 150 words.**Weightage 2 each.*

11. Highlight the basic concepts of geomorphology.
12. Explain the Scope of Geomorphology.
13. "Landscape is a function of structure, process and stage." Explain the statement.
14. Mass movement - Discuss.

**Turn over**

15. What is physical weathering ? Explain its types.
16. Explain the erosional features of a river.
17. Classify the moraines and explain.
18. Bring out the depositional features of Coastal Topography.
19. Describe the slope replacement theory of W.Penck.
20. Give a short account on slope decline theory of Davis.
21. Explain the importance of climatic geomorphology.
22. Explain the application of geomorphology in mineral exploration.

(9 × 2 = 18 weightage)

### Part C

*Write essays on any two of the following in about 400 words each.*

*Weightage 4 each.*

23. Discuss the nature and recent development of Geomorphology.
24. Bring out the Landform features resulted due to wind action.
25. Illustrate the concept of Davisian normal cycle of erosion.
26. Describe in detail the application in hydrology engineering projects.

(2 × 4 = 8 weightage)