

**FOURTH SEMESTER M.Sc. DEGREE (REGULAR) EXAMINATION
MARCH 2021**

(CBCSS)

Geography

GRY 4E 03.2—GEOGRAPHY OF WATER RESOURCES

(2019 Syllabus Year)

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 Define water budget.
- 2 What do you mean by overland flow ?
- 3 Define zone of aeration.
- 4 Differentiate aquifers and aquitards.
- 5 What is eutrophication ?
- 6 BIS.
- 7 Baolis.

(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 Explain the various steps involved in the frequency analysis of point rainfall.
- 9 Examine the significance of drainage basins as geohydrologic units.

Turn over

- 10 Explain the factors affecting ground water permeability.
- 11 Briefly explain the causes of water pollution.
- 12 Examine the problems associated with Aquifer recharge.
- 13 Discuss the different techniques for artificial ground water recharge.
- 14 Examine the role of wetlands in water resource management.

(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 Explain in detail the concept of water footprint and examine the significance of mapping water footprint in the sustainable management of water resources.
- 16 Elucidate the role of traditional water harvesting systems in water resource management.
- 17 Critically evaluate India's National Water Policy.
- 18 , Discuss in detail the effects of climate change in the global water resources.

(2 × 5 = 10 weightage)

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Geography

GRY 4E 03.1—CULTURAL GEOGRAPHY

(2019 Syllabus Year)

Time : Three Hours

Maximum : 30 Weightage

General Instructions

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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 Write short note on themes in cultural geography?
- 2 Define cultural region.
- 3 Write short note on humanisation of the earth?
- 4 Write short note on the origin of animal domestication?
- 5 Mention the places of pilgrimage of Hindu religion?
- 6 What is the quality of life in the rural centres?
- 7 Classify the house types?

(4 × 2 = 8 weightage)

Part B

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

- 8 Evaluate the concept of cultural landscape ?
- 9 Explain the rise and dominance of Homosapiens ?

Turn over

- 10 Elucidate the discovery of fire and building of shelter ?
- 11 Mention the regions of animal domestication ?
- 12 Discuss the main cultural regions of the world with special reference to India ?
- 13 Evaluate the cultural integration in religion ?
- 14 Differentiate between rural and urban settlements ?

(4 × 3 = 12 weightage)

Part 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 Discuss the impact of glaciation ?
- 16 Explain the cultural hearth Mesopotamia ?
- 17 Evaluate the major religions of the world and their distribution ?
- 18 Elaborate the origin and pattern of settlements in the world ?

(2 × 5 = 10 weightage)

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Geography

GRY 4C 12—AGRICULTURAL GEOGRAPHY

(2019 Syllabus Year)

Time : Three Hours

Maximum : 30 Weightage

General Instructions

1. *In cases where choices are provided, students can attend all questions in each section.*
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Part A

- I. Write short note on any *four* of the following. Answer should not exceed 100 words. Each question carries weightage 2 :

Draw appropriate maps/diagrams wherever applicable.

- 1 Neolithic revolution.
- 2 Truck farming.
- 3 Bhatia's Index of crop diversification.
- 4 Environmental approach of agricultural geography.
- 5 Vertical farming.
- 6 Second Green Revolution.
- 7 Polyculture.

(4 × 2 = 8 weightage)

Part B

- II. Write short essays on any *four* of the following. Answer should not exceed 300 words. Each question carries weightage 3. Draw appropriate maps/diagrams wherever applicable :

- 8 Stages of agricultural development.
- 9 Mellor's theory of agricultural development.

Turn over

- 10 Socio-economic determinants of agriculture.
- 11 Von Thunen's crop intensity model.
- 12 Sources of agricultural finance.
- 13 Techniques of land use survey.
- 14 Problems of Indian agriculture.

(4 × 3 = 12 weightage)

Part C

III. Write essays on any *two* of the following. Answer should not exceed 500 words. Each question carries weightage 5. Draw appropriate maps/diagrams wherever applicable :

- 15 Strategies for sustainable agriculture.
- 16 Boserup's Theory of Agricultural development.
- 17 Impact of land reforms on Indian agriculture.
- 18 New Agricultural strategy in India.

(2 × 5 = 10 weightage)

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Geography

GRY 4C 11—ENVIRONMENTAL GEOGRAPHY

(2019 Syllabus Year)

Time : Three Hours

Maximum : 30 Weightage

General Instructions

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Part A

Write short notes on any four of the following. Answer should not exceeding 100 words.

Draw appropriate maps / diagrams wherever applicable. All questions carry equal weightage.

1. Define Ecology.
2. Explain the concept biomes.
3. What is environmental determinism ?
4. Give a short note on Minamata incident.
5. What is Chipko movement ?
6. Coral bleaching.
7. Explain ecological niche.

(4 × 2 = 8 weightage)

Part B

Write short essays on any four of the following. Answer should not exceeding 300 words.

Draw appropriate maps / diagrams wherever applicable. All questions carry equal weightage.

8. Write a brief note on the structure and functions of ecosystem.
9. List out the types of land pollution.

Turn over

10. Water Act 1974.
11. Briefly explain the Stockholm Conference.
12. What are the significance of Environmental Impact Assessment (EIA) ?
13. Discuss the concept of in-situ conservation of biodiversity.
14. Write a short note on environmental justice .

(4 × 3 = 12 weightage)

Part C

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

15. Analyze the impact of global warming on environment.
16. Write an essay on environmental protection movements in India.
17. Describe the terrestrial and aquatic biomes with suitable examples.
18. Discuss the nature and scope of Biogeography.

(2 × 5 = 10 weightage)