

FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2022

Geography

GRY 4C01.4—INTRODUCTION TO DISASTER MANAGEMENT

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A

Answer at least eight questions.

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 24.

1. Risk assessment.
2. GPS location.
3. Resilience.
4. Contingency planning.
5. Retrofitting.
6. Geological hazard.
7. Greenhouse gas.
8. Rehabilitation.
9. Risk transfer.
10. Anthropogenic hazard.

(8 × 3 = 24 marks)

Turn over

Section B

*Answer at least **five** questions.*

Each question carries 5 marks.

All questions can be attended.

Overall Ceiling 25.

11. Write a note on the national institutes of disaster management.
12. Explain earthquake hazard.
13. Give a note on drought mitigation.
14. What is meant by community awareness and participation ?
15. Explain about disaster warning system.
16. Discuss the challenges of landslide.
17. What is the natural hazard impact on environment ?
18. Briefly explain vulnerability analysis.

(5 × 5 = 25 marks)

Section C

*Answer any **one** question.*

The question carries 11 marks.

19. Describe flood and its impacts.
20. Give a detailed account on geography and disaster management.

(1 × 11 = 11 marks)

FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION, APRIL 2022

Geography

GRY4B04—OCEANOGRAPHY

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A*Answer atleast **eight** questions.**Each question carries 3 marks.**All questions can be attended.**Overall ceiling 24.*

1. Marginal Seas.
2. Plunging waves.
3. Upwelling.
4. Euphotic zone.
5. La Nina.
6. Ooze.
7. Atoll.
8. Zoo plankton.
9. Ocean acidification.
10. Hydrothermal vent.

(8 × 3 = 24 marks)

Turn over

Section B

*Answer atleast **five** questions.*

Each question carries 5 marks.

All questions can be attended.

Overall ceiling 25.

11. What do you know about the international law of seas ?
12. What is tide ? Explain its types.
13. Write a short note on the horizontal distribution of salinity.
14. Briefly explain about the oceanographic institutions.
15. Describe the distribution and extent of Indian ocean.
16. Write a short on plate tectonic and ocean floor.
17. Explain the ocean bottom topography of Arctic Ocean.
18. How do water thermostatic properties maintain global temperature ?

(5 × 5 = 25 marks)

Section C

*Answer any **one** question.*

The question carries 11 marks.

19. Describe biological resources of ocean.
20. Discuss Ocean currents in Atlantic Ocean.

(1 × 11 = 11 marks)

**FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION
APRIL 2022**

Geography (2014—2016 Admissions)

GRY 4B 04—OCEANOGRAPHY

(2014 Admissions)

Time : Three Hours

Maximum : 80 Marks

I. Answer *all* the following given in part (A) and part (B). Each question carries 1 mark :

(A) Choose the correct answers :

1 Tetrahedral theory of origin and distribution of continents and ocean is put forwarded by :

- (a) Lowthean Green. (b) Mathew Maury.
(c) Spykeman. (d) John Snow.

2 The headquarters of National Institute of Oceanography is situated at :

- (a) Chennai. (b) Mumbai.
(c) Kolkata. (d) Goa.

3 Mariana trench is situated in :

- (a) Indian Ocean. (b) Pacific Ocean.
(c) Atlantic Ocean. (d) None of these.

4 Flat topped sea mounts are commonly called as :

- (a) Sea cliffs. (b) Stumps
(c) Continental Slope. (d) Guyots.

5 Coral is made of skeletons of minute sea organisms known as :

- (a) Placer. (b) Red clay.
(c) Rhizobium. (d) Polyps.

(B) Fill in the blanks :

- 6 Average salinity of sea water is _____.
- 7 A submarine mountain or peak rising more than 1000 metres above the ocean floor is known as a _____.
- 8 The father of modern oceanography is _____.
- 9 The confluence of cold Labrador current and warm Gulf stream produces the famous fogs around _____, one of the world's most important fishing grounds.
- 10 The periodic rise and fall of sea water is known as _____.

(10 × 1 = 10 marks)

II. Answer *all* the questions in not more than 50 words each. Each question carries 2 marks :

- 11 Write a short note on the marginal seas of Indian Ocean.
- 12 What is continental shelf ?
- 13 Shoal
- 14 Write a short note on the scope of oceanography.
- 15 Salinity of ocean
- 16 What are the factors affecting the ocean water temperature ?
- 17 Differentiate between ocean currents and tides.

(7 × 2 = 14 marks)

III. Answer any *five* questions in not more than 150 words each. Each question carries 4 marks :

- 18 Write a brief note on the major oceans in the world.
- 19 Atoll.
- 20 La Nina.
- 21 Differentiate between up-welling and down-welling.
- 22 What is Tsunami ?
- 23 Explain the major ill effects of oil sleek.
- 24 Sargasso Sea.

(5 × 4 = 20 marks)

IV. Write any *four* of the following in about 150 words each. Each question carries 4 marks :

- 25 List out major effects of ocean currents.
- 26 Discuss briefly the floor of Pacific Ocean.
- 27 Give an account on the horizontal distribution of temperature of ocean water.
- 28 Explain the effects of El Nino
- 29 Currents in South Indian Ocean.
- 30 Explain the chief types of ocean deposits.
- 31 Thermohaline circulations.

(4 × 4 = 16 marks)

V. Write an essay on any *two* of the following with 300 words each. Each question carries 10 marks :

- 32 Give a detailed account on the discipline of oceanography as a systemic science.
- 33 What do you understand by ocean bottom topography? Explain the major bottom relief with suitable illustrations.
- 34 Critically evaluate the impact of global warming and climate change on oceans.
- 35 Describe the currents of Atlantic Ocean with suitable illustrations.

(2 × 10 = 20 marks)

**FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2021**

Geography

GRY 4C 01.4—INTRODUCTION TO DISASTER MANAGEMENT

Time : Two Hours

Maximum : 60 Marks

Section A

*Answer at least **eight** questions.*

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 24.

1. Disaster preparedness.
2. Hazard.
3. Resilience.
4. Natural disaster management institutions in India.
5. EIA.
6. Mitigation.
7. Disaster warning system.
8. Tsunami effects.
9. Disaster risk.
10. Community awareness.

(8 × 3 = 24 marks)

Section B

*Answer at least **five** questions.*

Each question carries 5 marks.

All questions can be attended.

Overall Ceiling 25.

11. What are the anthropogenic disaster ?
12. Write a short note on effects of tropical cyclone.

Turn over

13. Give a note on natural disaster frame work in India.
14. Briefly discussed about the scope of geography in disaster management.
15. How we can predict disaster through GIS ?
16. Discuss the role of remote sensing in disaster management.
17. Give a note on the role of voluntary organisation in disaster.
18. What are the vulnerability and risk of volcanoes ?

(5 × 5 = 25 marks)

Section C

*Answer any **one** question.*

The question carries 11 marks.

19. Explain the consequences, challenges and impacts of landslide.
20. Describe drought with examples from the drought prone regions of India.

(1 × 11 = 11 marks)

**FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION
APRIL 2021**

Geography

GRY 4C 04—SPATIAL PLANNING AND DEVELOPMENT

(2017 Admissions)

Time : Three Hours

Maximum : 64 Marks

I. Answer *all* the following given in Part A and Part B.

(A) Choose the correct answer from the following :

1 Spatial planning is important for the :

- (a) Economic development (b) Social development.
(c) Sustainable development (d) Employment generation.

2 Spatial planning involves _____ steps.

- (a) Simple. (b) Easy.
(c) Complex. (d) Trouble less.

3 Land degradation has been greater where there has been an absence of :

- (a) Mining activity. (b) Proper resource planning.
(c) Deforestation. (d) Proper land use planning.

4 Health status of HDI calculated by _____.

- (a) Life Expectancy Rate (b) Infant Mortality Rate.
(c) Birth Rate (d) Death Rate.

5 Theory of balanced growth was proposed for the _____.

- (a) Under developed countries.
(b) Developed countries.
(c) Developing countries.
(d) Super Power Nations.

Turn over

(B) Match the following :

- | | | |
|------------------------|---|----------------------------|
| 6 Spatial planning | - | (a) Watershed development. |
| 7 Planning process | - | (b) Poverty alleviation. |
| 8 Hill areas | - | (c) Highly complex. |
| 9 HDI | - | (d) UNO. |
| 10 International Peace | - | (e) Case studies. |

(10 × 1 = 10 marks)

II. Answer *all* questions in not more than 50 words each :

- 11 Spatial planning-define.
- 12 Distinguish-rural and urban planning.
- 13 List out few government schemes on spatial planning.
- 14 Mention any *two* steps involved in watershed management.
- 15 Distinguish-poverty and famine.
- 16 Explain about human development.
- 17 What do you mean by sustainable development ?

(7 × 2 = 14 marks)

III. Answer any *six* of the following in not more than 150 words each :

- 18 Write a note on the goals of spatial planning.
- 19 Give a brief on participation principles in spatial planning.
- 20 What do you mean by integrated watershed management ?
- 21 Briefly explain about poverty alleviation.
- 22 Write a few salient features of balanced growth theory.
- 23 Discuss the need and scope of spatial planning.
- 24 List out and explain the government schemes and policies on spatial planning.
- 25 Write a note on the principles of land use planning.

26 Explain the basic indicators of human development.

27 Describe the UN agenda 21 and its features.

(6 × 4 = 24 marks)

IV. Write essays on any *two* of the following in about 300 words each :

28 Write an essay on the challenges and goals of spatial planning.

29 Give a detailed account on the process of spatial planning.

30 Describe the measurements of human development.

31 Explain the planning for sustainable development.

(2 × 8 = 16 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

**FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION
APRIL 2021**

Geography

GRY 4B 04—OCEANOGRAPHY

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

I. Answer all *ten* of following given in part (A) and (B) :

(A) Choose the correct answer from the following :

1 The headquarter of National Institute of Oceanography :

- (a) Cochin. (b) Mumbai.
(c) Vishakhapatnam (d) Goa

2 What is called the terrigenous sediments diameter ranging from 1mm to 1/16mm ?

- (a) Gravels. (b) Mud.
(c) Sands. (d) Clay.

3 The ratio between the weight of the dissolved solid materials and the weight of the Sample sea water is termed as ;

- (a) Density. (b) Salinity.
(c) Pressure. (d) Temperature.

4 What is called the movement of oceanic water in a definite direction with greater velocity ?

- (a) Tides. (b) Drift.
(c) Streams. (d) Ocean currents.

5 The taming and training of sea mammals in marine environment is :

- (a) Whaling. (b) Marine farming.
(c) Ocean ranching. (d) Fishing.

(B) Fill in the blanks with correct answer :

- 6 Atlantic ocean connects to Arctic ocean through _____ strait.
- 7 _____ is known as water hemisphere.
- 8 The _____ instrument is used for measuring the sub surface temperature.
- 9 Equatorial currents flow westward under the influence of _____ winds.
- 10 The transformation of saline sea water through the process of desalinization in to portable Water is known as _____.

(10 × 1 = 10 marks)

II. Answer *all* questions in not more than 50 words each :

- 11 Define Oceanography.
- 12 Explain the constructive plate, boundaries.
- 13 What is global warming ?
- 14 What are the causes for the generation of waves in the ocean ?
- 15 What is Mariculture ? Explain.
- 16 Describe the Panthalasa.
- 17 List out the marginal seas of Pacific ocean.

(7 × 2 = 14 marks)

III. Answer any *nine* of the following in not more than 150 words :

- 18 Write about the scope of oceanography.
- 19 What is called coral reefs ? Explain the types of coral reefs.
- 20 Briefly discuss about the horizontal and vertical distribution of salinity
- 21 What are the movements in the ocean water ? Explain.
- 22 Describe the ways to control oil pollution.
- 23 Explain the types of sea waves.
- 24 Discuss the impacts of rise in sea level.
- 25 Give a short note on Indian ocean.
- 26 Explain the general bottom relief features.

- 27 Discuss the vertical distribution of temperature.
- 28 Write an account on downwelling ocean currents.
- 29 Describe about the Exclusive Economic Zone.

(9 × 4 = 36 marks)

IV. Write essays on any *two* of the following in about 300 words each :

- 30 Discuss on the development of oceanography.
- 31 Explain the bottom topography of Atlantic ocean.
- 32 Describe the composition of ocean water in a detailed way.
- 33 Write an essay on United Nations and International law of the seas.

(2 × 10 = 20 marks)

CHMK LIBRARY UNIVERSITY OF CALICUT

C 2192

(Pages : 3)

Name.....

Reg. No.....

**FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION
APRIL 2021**

Geography

GRY 4B 04—OCEANOGRAPHY

(2014 Admissions)

Time : Three Hours

Maximum : 80 Marks

I. Answer *all* the following given in part (A) and part (B) :

(A) Choose the correct answers :

1 Who is the father of modern oceanography ?

- (a) Mathew Maury. (b) Herodotus.
(c) Humboldt. (d) John Snow.

2 Telegraph plateau is situated in

- (a) Indian Ocean. (b) Pacific Ocean.
(c) Atlantic Ocean. (d) None of these.

3 Average salinity of sea water is :

- (a) 20 %. (b) 35 %.
(c) 50 %. (d) 65 %.

4 Sargasso sea is associated with

- (a) North Atlantic Ocean. (b) South Indian Ocean.
(c) South Pacific Ocean. (d) Arctic Ocean.

5 India's first wave energy plant was installed in :

- (a) Kutch. (b) Visakhapatnam.
(c) Mangaluru. (d) Vizhinjam.

Turn over

(B) Fill in the blanks :

- 6 The headquarters of National Institute of Oceanography is situated at _____.
- 7 Flat topped sea mounts are called _____.
- 8 Tropical rain forests of oceans are _____.
- 9 The confluence of cold Labrador current and warm Gulf stream produces the famous fogs around _____, one of the world's most important fishing grounds.
- 10 The deposits derived from land and are brought to the ocean floor by rivers, glaciers, wind and sea waves are called _____.

(10 × 1 = 10 marks)

II. Answer *all* the questions in not more than 50 words each :

- 11 Write a brief note on the distribution of land and water on the earth.
- 12 What is submarine canyons ?
- 13 Atoll.
- 14 Write a brief note on islands in Indian ocean.
- 15 Gulf stream.
- 16 What are the factors affecting the horizontal distribution of temperature of ocean water ?
- 17 Differentiate between waves and tides.

(7 × 2 = 14 marks)

III. Answer any *five* questions in not more than 150 words each :

- 18 Write a brief note on the factors affecting salinity of ocean water.
- 19 Explain the El-Nino phenomenon.
- 20 Discuss the effects of Tsunami.
- 21 Differentiate between spring and neap tides.
- 22 What is thermohaline circulations ?
- 23 Explain the major ocean currents in South Indian ocean
- 24 Write about any *two* oceanographic institutes in Kerala.

(5 × 4 = 20 marks)

IV. Write any *four* of the following in about 150 words each.

- 25 List out major international laws on ocean and seas.
- 26 Discuss about major ocean resources.
- 27 What are the factors affecting the origin of ocean currents ?
- 28 Explain the effects of global warming on oceans.
- 29 Cold currents in Atlantic ocean.
- 30 Explain the chief types of coral reefs.
- 31 Discuss the bottom topography of Indian ocean.

(4 × 4 = 16 marks)

V. Write an essay on any *two* of the following with 300 words each :

- 32 Discuss the development, nature and scope of the discipline Oceanography.
- 33 What do you understand by ocean floor ? Describe its various parts with suitable diagrams.
- 34 Give a detailed account on ocean currents in Pacific ocean.
- 35 Bring out the major environmental problems degrading the oceans.

(2 × 10 = 20 marks)