

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

MGU-UGP (HONOURS)

SECOND SEMESTER EXAMINATION

(2024 ADMISION ONWARDS)

MG2DSCGEO100- EXOGENOUS EARTH PROCESSES

Duration: 1.5 hrs

Maximum Marks: 50

Students should attempt atleast one question from each course outcome (CO) to enhance their overall outcome attainability.

Part A

Answer all questions

1. Fluvial landforms are created by

a)Wind action b) Glacial action c) river action d) wave action [U][CO3]

2. Factors affecting weathering.

a)Topography b) climate c) Parent rock d) all of the above [U][CO2]

3. Erratic is created by

a)Wind action b) wave action c) glacial action d) all of the above [U][CO3]

4. Identify the wind driven landforms.

a)Yardang and point bar b) Dune and Esker c) Dune and blowouts d). crag and Tail [U][CO3]

5. B Horizon in the Soil profile is

a)Zone of Eluviation b) Zone of leaching c) Zone of accumulation d.)Weathered Hard rock [U][CO2]

(5x1 marks =5marks)

Part B

Write short answer on any 7 of the following in 60 words

6. Write any two roles of Hydrosphere in the earth system [U][CO1]

7. List t processes in rock cycle [U][CO1]

8. Name the major geological processes of rivers [U][CO3]

9. Write the major erosional processes of glaciers [U][CO3]
10. Write the Role of plants in weathering [U][CO2]
11. Define Delta and draw their structure [U][CO3]
12. How do sand dunes migrate in desert? [U][CO3]
13. What are speleothems? How they are formed? [U][CO3]
14. Differentiate Longshore current and longshore drift [U][CO3]

(7x3 marks =21 marks)

Part C

Write Short notes on any 3 of the following in 250 words.

15. Prepare a note on geological work of rivers in landform modification. [U][CO3]
16. Write a note on interaction between various subsystems in Geosphere [U][CO1]
17. What are beaches? Add a note on various coastal landforms. [U][CO3]
18. What is weathering? Explain the process of formation of soil by weathering. [U][CO2]
19. What are Karst Topography? Add a note on Landforms created by Groundwater [U][CO3]

(3x8 marks =24 marks)

.....

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

MGU-UGP (HONOURS)

SECOND SEMESTER EXAMINATION

(2024 ADMISION ONWARDS)

MG2MDCGEO100- NATURAL HAZARDS

Duration: 1hour

Maximum Marks: 35

Students should attempt atleast one question from each course outcome (CO) to enhance their overall outcome attainability.

Part A

Attend all questions

1. Which of the following is a geological hazard?

- a) Tsunami
- b) Hurricane
- c) Drought
- d) Heatwave

[U][CO1]

2. What is the name of the rotating storm that forms over warm ocean waters?

- a) Tornado
- b) Cyclone
- c) Earthquake
- d) Avalanche

[U][CO3]

3. Which scale is used to measure the magnitude of earthquakes?

- a) Richter scale
- b) Saffir-Simpson scale
- c) Fujita scale
- d) Beaufort scale

[U][CO2]

4. Which type of natural hazard is associated with mass wasting ?

- a) Cyclone
- b) Landslide
- c) Tsunami
- d) Earthquake

[U][CO2]

5. What is the primary cause of a tsunami?

- a) Volcanic eruption
- b) Earthquake under the ocean
- c) Strong winds
- d) Heavy rainfall

[U][CO2]

6. Which of the following is a biological hazard?

- a) Earthquake
- b) Wildfire
- c) Pandemic
- d) Tornado

[U][CO3]

(6x1 marks =6 marks)

Part B

Write short answer on any 5 of the following in 60 words

- 7. What are natural hazards [U][CO1]
- 8. What are the meteorological hazards [U][CO1]
- 9. Explain the earthquake impact and its risk [U][CO2]
- 10. Explain landslide causes and its impacts [U][CO2]
- 11. What are the anthropogenic factors contributing to natural hazards [U][CO2]
- 12. Explain cyclones its preparedness and mitigation methods [U][CO3]
- 13. What are the biological health hazards? [U][CO3]

(5x3 marks =15 marks)

Part C

Write Short notes on any 2 of the following in 230 words.

- | | |
|---|----------|
| 14.Explain various geological natural hazards | [U][CO1] |
| 15. Explain the impact of natural hazards on communities and the environment | [U][CO1] |
| 16.What are the engineering solutions for hazard mitigation | [U][CO2] |
| 17. Explain the types of floods. Add a note on causes and mitigation methods. | [U][CO3] |

(2x7 marks =14 marks)

.....