

MA GEOGRAPHY
First Semester
FUNDAMENTALS OF GEOMORPHOLOGY
(MGE - 101)

Duration: 3Hrs.

Full Marks: 70

Part-A (Objective) =20
Part-B (Descriptive) =50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

Answer any *five* of the following questions:

1. "Plate margins are areas of concentrated geologic activity"- Explain onset of plate tectonics and sea floor spreading mechanism. Give diagram in support. (5+5=10)
2. Define intensity and magnitude of volcanoes. What do you understand by initial and sequential landforms? Explain the process of volcanism along with suitable diagram. (2+3+5=10)
3. "Each one of the new paradigms has been born of a need to comprehend and explain the physical properties and laws associated with landforms"- on this light write about the development of geomorphology through ages. Brief about the concept of catastrophism along with suitable examples. (6+4=10)
4. "Geography is an interdisciplinary as well as integrated discipline"- put forward your views in this regard. Discuss the scope of geomorphology. (5+5=10)
5. Discuss the possible downstream impacts of hydropower projects in Northeastern region? Suggest two options for sustainable hydropower development in the region. (5+5=10)

6. Explain the landforms created by the unstratified unsorted debris dropped (deposited) by glaciers. Give diagram in support. (7+3=10)
7. Define mass wasting. Put forward a valid classification of mass movement with simplified diagrams. (3+7=10)
8. Explain fluvial dynamism in configuration of valleys at different levels. (10)

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Duration: 20 minutes

Marks – 20

(PART A- Objective Type)

I. Choose the correct answer:

1×20=20

1. "Mud from the Nile River had built the Nile Delta into the Mediterranean Sea"- this first was hypothesized by-
 - i. Herodotus
 - ii. Aristotle
 - iii. Lyell
 - iv. Chorley

2. Match the following:

a. Prodrumus	I. Nicolas Steno
b. Universal Ocean	II. Abraham Werner
c. Base Level	III. John Wesley Powell
d. Dynamic Geomorphology	IV. Arthur N. Strahler

- Codes:

	I	II	III	IV
i.	a	c	d	b
ii.	c	a	d	b
iii.	d	c	b	a
iv.	a	b	c	d

3. Processes that shapes the earth's surface include
 - i. Solidification
 - ii. Weathering
 - iii. Erosion and deposition
 - iv. All of the above

4. Continental drift refers to-
 - i. The vertical movement of the continents on a small scale.
 - ii. The horizontal movement of the continents in a vast scale.
 - iii. The horizontal movement of the continents on a small scale.
 - iv. The vertical as well as horizontal movement of the continents in a vast scale.

5. Hanging valleys are common in –
 - i. Karst regions
 - ii. Dry areas
 - iii. Snow covered areas
 - iv. Coastal locations

6. Which one of the following factors influences the type and rate of weathering?
- a. Climate
 - b. Vegetation cover
 - c. Rock structure
 - d. Topography

Select the correct code-

- i. Only a
- ii. a and b
- iii. Only c
- iv. All the above

7. **List I**

- a. Loess
- b. Moraines
- c. Gravel
- d. Sand and clay

List II

- 1. River deposited
- 2. Glacier deposited
- 3. Wind deposited
- 4. Sea deposited

Codes:

	a	b	c	d
i.	4	1	3	2
ii.	3	2	4	1
iii.	1	2	3	4
iv.	3	4	1	2

8. **List I**

- a. Cirque
- b. Exfoliation
- c. Sink hole
- d. Playa

List II

- 1. Weathering
- 2. Glacier
- 3. Arid
- 4. Karst

Codes:

	a	b	c	d
i.	1	2	3	4
ii.	4	3	1	2
iii.	2	1	4	3
iv.	1	2	4	3

9. The long narrow inlet into the sea coast with more or less steep sides is called

- i. Tunnel valleys
- ii. Rock drumlins
- iii. Nunataks
- iv. Fjords

10. The strata which are tightly compressed into wavelike structures are called-

- i. Faults
- ii. Folds
- iii. Orogens
- iv. Volcano

11. Glacial theory was put forward by –

- i. Charles Lyell
- ii. Louis Agassiz
- iii. James Hutton
- iv. John Playfair

12. Robert Horton put forward the Laws of fluvial morphometry in

- i. 1945
- ii. 1830
- iii. 1792
- iv. 1960

13. Pot holes are formed due to
i. Abrasion ii. Attrition iii. Solution iv. Hydraulic action
14. Which is not the mechanical erosion?
i. Abrasion ii. Solution iii. Hydraulic action iv. Attrition
15. Caverns are the landform of
i. Running water ii. Ground water iii. Wind iv. Glacier
16. A sand dune piled up longitudinally as a steep sided ridge is called
i. Seifs ii. Barchans iii. Bajada iv. Hammada
17. Which of the following is not the landform of glacier?
i. Tarn ii. Nunatak iii. Crag and tail iv. Barchans
18. The main and unavoidable challenge for hydropower development in Northeast is
i. Tectonic issue.
ii. Ecosystem.
iii. Less employment opportunity for local people.
iv. Electricity transmission to other parts of the country.
19. Assessed hydropower potential is more in the river
i. Brahmaputra ii. Ganga
iii. Indus iv. Central Indian rivers
20. Scope of expansion of Guwahati city is comparatively easy in direction
i. East ii. West iii. North iv. South
