

**MA GEOGRAPHY**  
**First Semester (Repeat)**  
**FUNDAMENTALS OF GEOMORPHOLOGY**  
**(MGE - 01)**

**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 four from Question no. 2 to 8**  
**Question no. 1 is compulsory.**

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 north-eastern 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. Explain the different forms of folding with illustrated figures. (6+4=10)

8. Write the different forms of landform features associated to fluvial process.

(6+4=10)

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**Duration: 20 minutes**

**Marks – 20**

**(PART A - Objective Type)**

**I. Tick (✓) the correct answer:**

**1×20=20**

1. 'To write about the earth including all that appears upon it', is.....
  - A) Geomorphology
  - B) Ecology
  - C) Geography
  - D) Geology
2. Geography informs us about
  - A) Landscape structure and its process of formation.
  - B) The places and communities in which we live and work.
  - C) The structure of lithosphere.
  - D) The process of Environmental denudation.
3. Mountain building earth movement is called.....
  - A) Epeirogenic
  - B) Orogenic
  - C) Tectogenic
  - D) Diastrophic
4. Lime stone region is known as.....
  - A) Fluvial topography
  - B) Karst topography
  - C) Desert topography
  - D) Glacier topography
5. The principle of uniformitarianism was first given by
  - A) Hutton
  - B) Playfair
  - C) Charles Lyell
  - D) W M Davis
6. The principle of geology is associated with
  - A) Hutton
  - B) Playfair
  - C) Charles Lyell
  - D) W M Davis

7. Geomorphologist Major J W Powell, G K Gilbert and C E Dutton carried out their work in
- A) Germany
  - B) French
  - C) Scotland
  - D) America
8. Mid Atlantic Ridge is located in plate margin of
- A) Divergent plate boundary.
  - B) Convergent plate boundary.
  - C) Conservative margin.
  - D) None of the above.
9. The volcanos which have recorded no eruption in historic time is.....
- A) Active volcano
  - B) Dormant volcano
  - C) Extinct volcano
  - D) Shifting volcano
10. Graben is
- A) An uplifted block
  - B) A down dropped block
  - C) A geosyncline
  - D) None of these
11. The sea that separates the Arabian peninsula from Africa
- A) Mediterranean sea
  - B) Red sea
  - C) Black sea
  - D) Caspian sea
12. The most abundant element of the earth crust is
- A) Carbon dioxide
  - B) Oxygen
  - C) Nitrogen
  - D) Ozone
13. Lava is
- A) Intensive igneous rock
  - B) Extensive igneous rock
  - C) Metamorphic rock
  - D) Sedimentary rock
14. "Mud from the Nile River had built the Nile Delta into the Mediterranean Sea"- this first was hypothesized by-
- A) Herodotus
  - B) Aristotle
  - C) Lyell
  - D) Chorley

15. Match the following:

- a. Prodrumus
- b. Universal Ocean
- c. Base Level
- d. Dynamic Geomorphology

- I. Nicolas Steno
- II. Abraham Werner
- III. John Wesley Powell
- 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

16. Processes that shapes the earth's surface include

- A) Solidification
- B) Weathering
- C) Erosion and deposition
- D) All of the above

17. Barkhans are formed due to

- A) Wave action
- B) Wind action
- C) Wind deposition
- D) Glacial erosion

18. Weathering is

- A) Thaw freezing of water in cracks in rocks.
- B) The break-up of rocks exposed at the surface.
- C) The alternate heating and cooling of rocks.
- D) None of the above.

19. Moraines are formed by

- A) Winds
- B) Rivers
- C) Glaciers
- D) Sea waves

20. Levee is formed by

- A) Wind
- B) River
- C) Glacier
- D) Sea wave

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