

**1 (Sem-1/FYUGP) GGY 41 MJ**

**2025**

**GEOGRAPHY**

**( Major )**

**Paper : GGY4100104MJ**

**( Introduction to Physical Geography )**

*Full Marks : 60*

*Time : 2½ hours*

*The figures in the margin indicate full marks  
for the questions*

**1. Answer the following as directed : 1×8=8**

- (a)** Who gave the concept that landform is a function of structure, process and time?
- (b)** Who proposed the concept of 'uniformitarianism'?
- (c)** The main factor controlling the amount of insolation received at a place is
  - (i)** soil type
  - (ii)** latitude
  - (iii)** ocean salinity
  - (iv)** vegetation cover

**( Choose the correct answer )**

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**( Turn Over )**

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(d) The term 'Ecology' was first coined by Ernst Haeckel in the year \_\_\_\_.

( Fill in the blank )

(e) Who wrote the book named *Principles of Geomorphology*?

(f) Which factor increases salinity in ocean water?

(g) The opposite concept to uniformitarianism is \_\_\_\_.

( Fill in the blank )

(h) Give an example of an erosional landform of river.

2. Answer any six from the following questions :

2×6=12

(a) What do you mean by the term 'Monadnock'?

(b) Why is Physical Geography considered both a natural science and a spatial science?

(c) State two differences between weather and climate.

(d) Distinguish between warm and cold ocean currents.

(e) What is food chain?

(f) Mention two major threats to biodiversity.

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- (g) Mention two types of geomorphology.
- (h) What is 'biosphere'?
- (i) What is the relationship between temperature and atmospheric pressure?
- (j) Name any two depositional features created by fluvial processes.

3. Answer any *four* from the following questions : 5×4=20

- (a) What is insolation? Explain the factors controlling the distribution of insolation on Earth. 2+3=5
- (b) Discuss the evolution and major trends in Physical Geography as a study of Earth process systems. 5+5=10
- (c) Discuss the fundamental concepts in geomorphology.
- (d) Describe the importance of biogeographic studies in conservation and environmental management.
- (e) Explain the major factors responsible for the origin and movement of ocean currents.
- (f) Discuss the principal fluvial erosional processes and support your answer with appropriate diagrams.

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( 4 )

(g) Explain the meaning of ecology and discuss its importance in understanding the relationships between organisms and their environment.

(h) Distinguish between uniformitarianism and catastrophism.

4. Answer any *two* from the following questions : 10×2=20

(a) Describe the ways in which constructive and destructive geomorphic processes shape the Earth's surface. Illustrate your answer with suitable diagrams.

(b) Describe the meaning and scope of geomorphology. 5+5=10

(c) Examine the spatial distribution of ocean temperature and salinity. Also explain the factors affecting these patterns. 5+5=10

(d) Explain the flow of energy in an ecosystem. Discuss the concepts of food chain, food web and ecological pyramid with suitable diagrams. 4+2+2+2=10

(e) Explain the key factors causing the loss of biodiversity and describe the strategies to conserve it. 5+5=10

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