

2018
GEOGRAPHY
GGY-101
GEO MORPHOLOGY

Full Mark: 80

Time: 3 hours

The figures in the margin indicates full marks for the questions

1. Multiple choice questions (Answer all) 1X10=10

- i. Who first enunciated the concept of Uniformitarianism?
(a) Playfair (b) Dutton
(c) Hutton (d) Kober
- ii. Evidence of glacial dominance in northern Europe was given by
(a) G.K. Gilbert (b) J.W. Powell
(c) J.Playfair (d) L.Agassiz
- iii. Sea floor spreading is proved by
(a) Gravitational Anomalies (b) Convection current Anomalies
(c) Magnetic Anomalies (d) Geological Anomalies
- iv. Levees are associated with
(a) River (b) Glacier (c) Wind (d) Ground water
- v. Which is a Global Unifying theory
(a) Wilson Cycle (b) Expanding earth
(c) Plate Tectonics (d) Sea floor Spreading
- vi. Atlas maintain range is a
(a) Relict landform (b) Buried landform
(c) Exhumed landform (d) Glacial landform

- vii. A cirque landform is associated with.....
- (a) Fluvial landform (b) Glacial landform
(c) Aeolian landform (d) Ground water landform

- viii. Which is the characteristic of a recumbent fold?
- (a) Both limbs are incline uniformly
(b) One limb inclines steeply
(c) Both limbs are parallel and horizontal
(d) Angle between two limbs are $>90^\circ$

- ix. Little of the Earth's topography is older than
- (a) Tertiary (b) Cretaceous
(c) Jurassic (d) Cambrian

- x. Continental drift took place during
- (a) Carboniferous (b) Permian
(c) Triassic (d) Jurassic

2. Answer in brief (any four)

2X4=8

- i. What is continental rift?
ii. What is Abrasion?
iii. What is attrition?
iv. What are Exogenetic geomorphic processes?
v. What is Orogeny?
vi. What is Cordillera?

3. Answer in brief (any four)

5X4=20

- i. What is Mid-Oceanic ridge? Explain in short with suitable diagram.
4+1
ii. Differentiate between Uniformitarianism and Catastrophism? 5
iii. What is delta? Explain its types in brief with suitable diagrams.
1+2+2
iv. In short illustrate the idea of Dynamic Equilibrium theory. 5

- v. What is the domain of Geomorphology? How did it developed during the modern times? 1+4
vi. Explain sea floor spreading with suitable diagram in short. 4+1

4 Answer in detail (any Two)

9x2=18

- i. How does fold and fault formed? Explain different types of fold and fault with suitable diagrams. 3+4+2
ii. What is a glacier? Explain various types of erosional and depositional landforms with suitable diagram. 7+2
iii. Define Isostasy and critically analyse the idea with suitable diagrams. 2+5+2
iv. What is Environmental Geomorphology? How it is related to climate change and environment. 7+2

5. Answer in Detail (Any two)

12x2=24

- i. What is Palaeogeomorphology? Explain different types of landforms with suitable diagrams. 3+7+2
ii. What is Plate Tectonics? Explain its mechanism and significance in understanding present day landforms over the earth's surface with necessary illustration and diagrams. 2+8+2
iii. Write and briefly explain the fundamental concepts in Geomorphology. 12
iv. Critically explain the forces which affect the earth's crust and continuously bring changes. 12
