

2015
GEOGRAPHY

Paper : 101

GEOMORPHOLOGY

Full Marks : 80

Time : 3 hours

The figures in the margin indicate full marks for the questions

- 1 Answer the following questions . 1X 10=10
- i. In which era of the geological timescale are we living now?
- (a) Mesozoic (b) Cenozoic
(c) Pre Cambrian (d) Archian
- ii. Plucking is associated with ____
- (a) Wind erosion (b) fluvial erosion
(c) Glacial Erosion (d) deposition
- iii. What is a playa?
- (a) A lake (b) A fold
(c) Depositional landform (d) An Erosional Landform
- iv. Who first used the term pediment?
- (a) G K Gilbert (b) William Morris Davis
(c) Charles Robert Darwin (d) Penck

- v. Levees are depositional features by the action
 (a) River (b) Wind
 (c) Glaciers (d) Ground Water
- vi. Ring of fire is in
 (a) Indo-Australian plate, (b) Pacific Plate
 (c) Eurasian plate (d) Atlantic Plate
- vii. Who propounded Sea Floor Spreading
 (a) James Hutton (b) Alfred Wegner
 (c) W.M. Davis (d) Harry Hess
- viii. Who propounded Continental Drift theory
 (a) James Hutton (b) Alfred Wegner
 (c) G.K. Gilbert (d) Harry Hess
- ix. What is another name of Global Unifying theory of Geomorphology
 (a) Wilson Cycle, (b) Expanding Earth,
 (c) Plate Tectonics, (d) Sea floor spreading
- x. What kind of paleogeomorphic landform is the Aravali range?
 (a) Buried (b) Exhumed
 (c) Relict (d) Erosional
2. Answer in brief (any four) $2 \times 4 = 8$
- Name landforms associated with convergent plates
 - What are Endogenetic forces?
 - What is Catastrophism?

- What are river ox bow lakes?
 - What is an Inselberg?
 - What is convection current?
- vii. Write characteristics of continent and ocean basin
3. Answer in brief (any four) $5 \times 4 = 20$
- What is a Threshold?
 - What are Endogenetic forces?
 - Triple junction concept
 - Mid-oceanic ridge
 - What is join fitting idea of continental drift theory?
 - 'Present is the key to the past.' Explain.
4. Answer in detail (any Two) $9 \times 2 = 18$
- What is the subject matter of geomorphology? How did it developed during the modern times?
 - Explain what Uniformitarianism is. Who coined the term first and who developed this concept latter? How is it different from Catastrophism?
 - What do you mean by folds and how are they formed? What are the different kinds of folds? How are folds different form faults?
 - What is Aeolian erosion? Describe the Aeolian processes. Describe with a suitable diagram, the landforms it form in an arid or semi-arid region along with fluvial processes

v. What is global unifying theory of geomorphology?
Explain different plate boundaries and landform associated with it, with a suitable diagram

5. Answer in Detail(Any two)

12x2=24

- i. Illustrate the idea of sea floor spreading? How it explains the global ocean and continental distribution, show with a suitable diagram
- ii. What is Palaeogeomorphology? What are the various landform associated with it. Explain one landform with example and suitable diagram.
- iii. Define environmental geomorphology? Justify its importance in environmental management.
- iv. What do you mean by exogenetic forces? What are they responsible of doing? Describe its various agents