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(NEP—2020)

(4th Semester)

GEOGRAPHY

(MAJOR)

(**Geomorphology**)

Full Marks : 75

Time : 3 hours

The figures in the margin indicate full marks for the questions

(**SECTION : A—OBJECTIVE**)

(Marks : 10)

Tick (✓) the correct answer in the brackets provided :

1×10=10

1. The term 'geomorphology' is derived from

- (a) Greek ()
- (b) Latin ()
- (c) Arabic ()
- (d) Hebrew ()

2. Geomorphology is a significant branch of

- (a) geophysics ()
- (b) structural geology ()
- (c) physical geography ()
- (d) geo-tectonics ()

3. Solution and oxidation are the agents of
- (a) chemical weathering ()
 - (b) physical weathering ()
 - (c) cosmical weathering ()
 - (d) biological weathering ()
4. Mass wasting is mainly caused by the action of
- (a) run-off ()
 - (b) force of gravity ()
 - (c) vegetation ()
 - (d) human activity ()
5. The concept of normal cycle of erosion was proposed by
- (a) Strahler ()
 - (b) Penck ()
 - (c) Davis ()
 - (d) Darwin ()
6. Delta is often formed in
- (a) youthful stage ()
 - (b) maturity stage ()
 - (c) old stage ()
 - (d) None of the above ()
7. Crevasse is found in
- (a) glaciated region ()
 - (b) karst region ()
 - (c) lower course of river ()
 - (d) folded areas ()
8. Natural levee is a landform of
- (a) glacial ()
 - (b) fluvial ()
 - (c) cirque ()
 - (d) coastal ()

9. Who propounded the concept of slope decline?

- (a) W. Penck ()
- (b) W. M. Davis ()
- (c) L. C. King ()
- (d) W. D. Thornbury ()

10. The waxing slope is also called

- (a) convex slope ()
- (b) constant slope ()
- (c) waning slope ()
- (d) free-face slope ()

(SECTION : B—SHORT ANSWERS)

(Marks : 15)

Write on *five* of the following, selecting at least *one* from each Unit : 3×5=15

UNIT—I

- 1. Concept of uniformitarianism
- 2. Process in geomorphology

UNIT—II

- 3. Physical weathering
- 4. Limitation of Penck's cycle of erosion

UNIT—III

- 5. Yardang and Zeugen
- 6. Drumlins

UNIT—IV

- 7. Elements of slope
- 8. Downwasting model

(SECTION : C—DESCRIPTIVE)

(Marks : 50)

Answer *five* questions, selecting at least *one* from each Unit : 10×5=50

UNIT—I

1. Describe the nature and scope of geomorphology. 5+5=10
2. Discuss the modern trends in the study of geomorphology. 10

UNIT—II

3. What is mass wasting? Describe the various types of mass wasting. 3+7=10
4. Explain the concept of cycle of erosion as proposed by W. M. Davis. 10

UNIT—III

5. Describe the landforms produced by river in its upper and middle course. 10
6. What is karst region? Discuss the different erosional landforms found in karst region. 10

UNIT—IV

7. Discuss in detail Penck's slope replacement model. 10
8. Give an account of the slope parallel retreat model of Wood and King. 10
