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(CBCS)

(6th Semester)

GEOGRAPHY

NINTH PAPER

(**Geomorphology**)

(Revised)

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. Who among the following is considered as the founder of modern geomorphic ideas?

(a) Hutton ()

(b) W. M. Davis ()

(c) Horton ()

(d) Penck ()

2. Endogenetic earth movements originate

- (a) inside the earth ()
- (b) outside the surface of the earth ()
- (c) Both of the above ()
- (d) None of the above ()

3. "There is a short period rapid rate of upliftment in landmass", this is the assumption made by

- (a) Albrecht Penck ()
- (b) Walther Penck ()
- (c) W. M. Davis ()
- (d) James Hutton ()

4. The principal characteristics of the old age of the cycle of erosion, according to Davis, is the existence of the peneplain with stray

- (a) Inselberg ()
- (b) Monadnocks ()
- (c) Endrumpf ()
- (d) Primarumpf ()

5. Drainage frequency is the measure of

(a) length of the streams per unit area ()

(b) number of streams per unit area ()

(c) length of a particular river ()

(d) All of the above ()

6. The morphometric analysis of a river basin using hypsometric curve is associated with

(a) linear aspects ()

(b) areal aspects ()

(c) relief aspects ()

(d) All of the above ()

7. An extensive and broad fold consisting of several minor anticlines and synclines are called

(a) overturned folds ()

(b) open and closed folds ()

(c) nappes ()

(d) fan folds ()

8. The drainage pattern related to river capture is

- (a) trellis pattern ()
- (b) dendritic pattern ()
- (c) pinnate drainage pattern ()
- (d) barbed drainage pattern ()

9. Which among the following is considered the most powerful agent of marine erosion?

- (a) Tides ()
- (b) Waves ()
- (c) Wind ()
- (d) Currents ()

10. Lagoons are generally formed due to

- (a) erosional works of wind ()
- (b) depositional works of sea waves ()
- (c) solution in karst region ()
- (d) erosional works of sea waves ()

(SECTION : B—SHORT ANSWERS)

(Marks : 15)

Answer/Write short notes on the following :

3×5=15

UNIT—I

1. Uniformitarianism

OR

2. Mechanical weathering

UNIT—II

3. Differentiate between endogenetic forces and exogenetic forces.

OR

4. Peneplain

UNIT—III

5. What do you mean by morphometry of drainage basin?

OR

6. Drainage density

UNIT—IV

7. What are block mountains?

OR

8. Dendritic pattern of drainage

UNIT—V

9. Formation of mushroom rocks

OR

10. Sand dunes of arid regions

(SECTION : C—DESCRIPTIVE)

(Marks : 50)

Answer the following questions :

10×5=50

UNIT—I

1. Discuss the geomorphic process with reference to erosion and transportation by the agent of running water. 5+5=10

OR

2. Define mass wasting. Describe different types of mass wasting. 2+8=10

UNIT—II

3. Examine Penck's model of cycle of erosion with suitable diagram. 10

OR

4. Define slope. Discuss various types of slope segments. 2+8=10

UNIT—III

5. Define fluvial geomorphology. Describe the key concept of fluvial morphology. 2+8=10

OR

6. Define channel morphology. Explain the different types of channels with suitable diagrams. 2+8=10

UNIT—IV

7. Give a detailed description of the evolution of different types of drainage system. 10

OR

8. Describe the meaning and concept of denudation chronology.

UNIT—V

9. What do you understand by aeolian process? Explain the different types of erosional landforms formed due to aeolian action. 2+8=10

OR

10. Describe briefly the various landform features formed in the coastal region. 10
