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B.Sc. (Part—II) Semester—IV Examination
GEOLOGY (New)
(Structural Geology, Tectonics and Geomorphology)

Time : Three Hours] [Maximum Marks : 80

N.B. :— (1) **ALL** the questions are compulsory.
(2) Draw well labelled diagram wherever necessary.

1. (A) Fill in the blanks :
   (i) Undulation or curve developed in the rock body are known as .....
   (ii) In ..... drainage pattern develops in terrain containing tilled rock beds and parallel faults.
   (iii) Divisional planes or fractures along which there has been no relative displacement are called .....
   (iv) The concept of continental drift was proposed by ..... in 1910. 2

   (B) Choose the correct alternatives :
   (i) A symmetrical fold :
      (a) Two limbs dip at different angles but in opposite direction
      (b) Two limbs dip at same angle but in opposite direction
      (c) Two limbs dip at different angle but different direction
      (d) Two limbs dip at different angle but same direction
   (ii) Disconformity is also called as :
      (a) Local Unconformity (b) Blended Unconformity
      (c) Parallel Unconformity (d) Structural Unconformity
   (iii) Which among the following is not part of fault ?
      (a) Head and heave (b) Throw
      (c) Head and throw (d) Hingle and limbs
   (iv) Aeolian deposits are associated with :
      (a) Glaciers (b) Wind
      (c) Deserts (d) River 2

   (C) Answer in one or two sentences :
   (i) What is foliation ?
   (ii) What is tensional joint ?
   (iii) What is bifurcation ratio ?
   (iv) What is reverse fault ? 4

2. Explain the following :
   (A) Angular unconformity 4
   (B) Onlap and offlap 4
   (C) Dip and strike 4

OR

   (P) Outcrop 4
   (Q) Recognition of unconformity 4
   (R) Outlier and inlier. 4

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3. Describe the method to determine Strain by using bilateral symmetrical fossil. 12

OR

What is Strain and Stress ? Describe the interrelationship of stress, strain and deformation. 12

4. Explain the following :

(A) Causes of folding 4

(B) Normal fault 4

(C) Classification of joints 4

OR

(P) Isoclinal folds 4

(Q) Significance of joint 4

(R) Parts of fault. 4

5. What is geosyncline ? Describe in detail classification and its importance. 12

OR

Describe in detail the plate tectonic theory. 12

6. Explain the following :

(A) Endogenic process 4

(B) Radial drainage pattern 4

(C) Drainage frequency 4

OR

(P) Fluvial cycle 4

(Q) Dendritic drainage pattern 4

(R) Scope and aim of geomorphology. 4

7. Explain the following :

(A) Glacial landforms 4

(B) Soil profile 4

(C) Delta formation 4

OR

(P) Karst topography 4

(Q) Alluvial fans and cones 4

(R) Tools of geomorphologist. 4

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