



UNIVERSITY OF THE PUNJAB

First Prof. A/2018

Examination:- B.S. Applied Geology

Roll No.

Subject: General Geology
PAPER: VII / GEOL-102

TIME ALLOWED: 3 Hrs.
MAX. MARKS: 100

NOTE: Attempt All questions.

Q.No. 1 Define any TEN of the Following Geological terms. (3x10=30)

- i. Lithosphere and Asthenosphere ,
- ii. Batholith and Stock,
- iii. Dyke and Sill.
- iv. Focus and Epicenter,
- v. Seismogram and Seismograph,
- vi. Mohorovicic and Guttenberg discontinuity,
- vii. Dip and Strike
- viii. Mineral and Mineraloid.
- ix. Isostatic and differential stress
- x. Mean life and half life
- xi. Foliation and lineation
- xii. Convergent and divergent plate boundaries
- xiii. Principal of Uniformitarianism,
- xiv. Shadow zones,
- xv. Sedimentary cycle,
- xvi. Law of cross cutting relationship

Q.No. 2 Briefly explain and draw figures any FIVE of the following. (5x5=25)

- i. Crust of Earth
- ii. Crystal Structure
- iii. Moh's scale of hardness
- iv. Classification of beds on the basis of layer thickness
- v. Differences between Contact Metamorphism and Regional Metamorphism
- vi. Discuss important minerals of Sedimentary rocks
- vii. Mud Cracks
- viii. Ripple Marks

Q.No. 3 Answer and solve any Three of the following. (3x15=45)

- i. a) Discuss Radiocarbon Method to determine the age of dead tissues.
b) A sample of C-14, whose half life is 5730 years, has a decay rate of 14 disintegration per minutes (dpm) per gram of Natural Carbon C. An artifact is found to have radioactivity of 4 dpm per gram of its present carbon C. how old is the artifact.
- ii. How can you locate the epicenter, and time of occurrence, of an earthquake if it is recorded at several seismic stations.
- iii. Define metamorphism and discuss its different types.
- iv. Discuss Unconformity and its types giving examples you observed in the field.
- v. Discuss Sedimentary structures and its importance.



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