

Neat sketches may be drawn to illustrate answers, wherever required.

PART-I

- - (a) Drainage pattern
 - (b) Air Base and Photo Base
 - (c) Vertical fault
 - (d) Spectral Resolution

(e) Infra – Trappean and Inter – Trappean Beds

- (f) Palaeogeography
- (g) Plankton
- (h) Inlier
- (i) Stereoscopy
- (j) Shear joints
- (k) Topographic map
- (l) Syncline.

PART-II

SECTION-A

- 2. (a) Discuss the importance of geomorphology in hydrogeological studies. 20
 - (b) What are the differences between aerial photographs and satellite imagery ? 10
- 3. Write short notes on :—

5×6=30

3

- (a) Elements of Hill Slopes
- (b) IFOV and PIXEL
- (c) Etch plain.
- (d) Tone and Texture
- (e) Strandlines
- (f) Spheroidal weathering

SECTION—B

 Give an account of classification of folds and on the mechanism of folding. Draw neat sketches to illustrate.
 30

(Contd.)

5. Write short notes on :--

5×6=30

- (a) Strike and Dip
- (b) Lineations
- (c) Superposed deformation
- (d) Salt Dome
- (e) Projection Diagram
- (f) Distinction between joints and faults.

SECTION-C

6. Discuss in detail the planetary evolution of the earth. Illustrate your answer with neat sketches. Add a note on the evolution of the Indian subcontinent.

20+10=30

- 7. Write short notes on :— $5 \times 6=30$
 - (a) Epeirogeny
 - (b) Meteorites
 - (c) Continental shield areas
 - (d) Seismic belts of the earth
 - (e) Sea floor spreading
 - (f) Oceanic Islands.

SECTION-D

- (a) Give an account of the Cuddapah Supergroup of rocks with special reference to its mineral wealth.
 20
 - (b) Write a note on the stratigraphic correlation of unfossiliferous rocks. 10

(Contd.)

- 9. Write short notes on :---
 - (a) Kurnool Series
 - (b) Deccan Volcanics
 - (c) Lithostratigraphy
 - (d) Barakar Formations
 - (e) Singhbhum Granite
 - (f) Palaeoclimates.

SECTION-E

- 10. (a) Give an account of the study of Micropalaeontology in relation to Stratigraphy. 20
 - (b) Highlight the evolutionary changes in molluscs in geological time.
 10

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- 11. Write short notes on :-- $5 \times 6=30$
 - (a) Species and genera
 - (b) Life in Precambrian times
 - (c) Gondwana flora
 - (d) Ornamentation on gastropod shells
 - (e) Dinosaur

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(f) Siwalik Vertebrate Fauna.