2019

GEOGRAPHY

(Honours)

Paper : GEOH DC-1A

(Geotectonics and Geomorphology)

[CBCS]

Full Marks : 25   Time : Two Hours

The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.

Section - A

Answer any *one* of the following questions :

$$10 \times 1 = 10$$

1. (a) Explain the concept of Pratt regarding isostasy.

    (b) What are the essential conditions favourable for the development of karst topography ?

$$6 + 4 = 10$$

P.T.O.

(2)

2. (a) What are the essence of landform evolution model of L. C. King ?

(b) What are the components of folds ? $7+3=10$

Section - B

Answer any *three* of the following questions :

$$5 \times 3 = 15$$

3. Write about the characteristics of core of the earth's interior in the light of seismic waves. 5

4. Make a classification of landforms according to Horberg. 5

5. What are the tectonic landforms associated with subduction zones ? Illustrate your answer. 5

6. Describe the landforms which are associated with fluvio-glacial processes. 5

7. (a) Distinguish between fault-scarps and fault line scarps.

(b) What is meant by 'aeolian landform' ?

$$3+2=5$$

(3)

8. (a) Describe any two landforms those are formed on uniclinal structure owing to fluvial action.

(b) Why geological time scale is necessary for understanding the geotectonic activities ?

$$3+2=5$$

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2019

GEOGRAPHY

(Honours)

Paper : GEOH - DC-2A

[CBCS]

Full Marks : 25   Time : Two Hours

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Candidates are required to give their answers
in their own words as far as practicable.

Answer any *one* of the following questions :

$10 \times 1 = 10$

1. Make a brief discussion on Geographic Co-ordinate Reference System (GCRS) and Projected Coordinate Reference System (PCRS). How does the Universal Transverse Mercator (UTM) Work ? $5+5=10$

2. Differentiate between "Surveying" and "Levelling". Give the field procedures of levelling and make salient observations on the same. $4+6=10$

P.T.O.

(2)

Answer any *three* questions: $5 \times 3 = 15$

3. Define the term Vernier Constant. State the situations and instruments in which Vernier scale is mostly used.

$$2\frac{1}{2} + 2\frac{1}{2} = 5$$

4. Make a short note on "Geoid" and "Spheroid".   5

5. Why the graduations inscribed on the dial of the Prismatic Compass are inverted ?   5

6. Make a comparative analysis of whole Circle Bearing System and Quadrantal Bearing System.   5

7. Give a detailed layout of Survey of India published Topographical Maps (Before 1990) on a metric system.   5

8. What is magnetic declination ? How it is related with bearing of a line ? $2\frac{1}{2} + 2\frac{1}{2} = 5$

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