2018

GEOGRAPHY

(Major)

Paper : 1·2

(Basis of Geomorphology)

Full Marks : 60

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer **all** questions

1. Choose the correct option of the following questions : 1×7=7

(a) Which of the following is not an aeolian process?

(i) Deflation

(ii) Abrasion

(iii) Corrosion

(iv) Attrition

(b) ***Melaspina glacier*** of Alaska is a typical example of

(i) continental glacier

(ii) piedmont glacier

(iii) valley glacier

(iv) cirque glacier

(c) Which are the two main materials found at the earth's core?

(i) Nickel and copper

(ii) Nickel and ferrous

(iii) Copper and ferrous

(iv) Ferrous and lime

(d) ***Jigsaw Fit*** is best observed in which of the following?

(i) Atlantic Ocean

(ii) Indian Ocean

(iii) Pacific Ocean

(iv) Arctic Ocean

(e) Which of the following is formed by the erosional work of a river?

(i) Gorge

(ii) Floodplain

(iii) Alluvial Fan

(iv) Delta

(f) The ***Foreland Theory*** of mountain building was proposed by

(i) A. Holmes

(ii) Jeffreys

(iii) L. Kober

(iv) J. Evans

(g) ***River Capture*** is the most important characteristic feature of

(i) youthful stage

(ii) mature stage

(iii) old stage

(iv) mature and old stage

2. Write very briefly on the following : 2×4=8

(a) Tropical geomorphology

(b) Foothills

(c) Panthalasa

(d) Epeirogenic movement

3. Answer any *three* of the following : 5×3=15

(a) Explain the relation of Physical Geography with Meteorology, Hydrology and Pedology. 5

(b) What is seismograph? How does it help in studying the earthquake waves? 1+4=5

(c) Distinguish between alluvial fans and alluvial cones. 5

(d) Write the causes of plate motion. 5

(e) Draw a sketch of a floodplain and mark thereon the following : 2+1+1+1=5

(i) Natural levee

(ii) Ox-bow lake

(iii) Point bar

4. Define physical geography. Explain its nature and scope. 2+4+4=10

Or

What do you mean by continental drift? Describe the views for and against the continental drift theory of Alfred Wegener. 2+4+4=10

5. Give a critical analysis of Holme's Convection Current Theory and illustrate your answer with the help of proper diagrams. 10

Or

Explain the concept of isostasy as proposed by Pratt. How is it different from the view of Airy? 6+4=10

6. Discuss in detail the normal cycle of erosion. 10

Or

Define plains. Explain different types of depositional plains with examples. 2+8=10

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