

**New**  
**Part-III 3-Tier**  
**2015**

**GEOGRAPHY**

**(Honours)**

**PAPER—VII (Set-1)**

**(PRACTICAL)**

*Full Marks : 100*

*Time : 6 Hours*

*The figures in the right-hand margin indicate full marks.*

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

*Answer all the questions.*

1. Draw a geological section along the line XY on the given geological map and interpret the same on the following heads :
  - (a) (i) Geological succession;  
(ii) Topography in relation to the structure.
  - (b) Distinguish between true thickness and vertical thickness of rock beds.

4+2+2+2

*(Turn Over)*

2. (a) Prepare a Slope Map after Wentworth from the given topographical sheet (to be supplied) showing variation of slope of grid framework (10 cm × 12 cm) marked on the map. 8

- (b) Analyse the distribution, type and pattern of settlement in relation to terrain character of the given topographical map. Draw necessary sketches and transect chart to give your answer. 8+4

3. Draw rainfall dispersion diagram from the data given below. Calculate the co-efficient of quartile deviation and interpret the diagram. 6+2+2

Year	1961	1962	1963	1964	1965	1966	1967	1968
Siliguri	353.7	310.2	399.8	429.7	360.0	345.2	404.6	351.9
Alipurduar	151.1	145.8	140.2	130.0	149.5	192.0	110.8	198.9

Year	1969	1970	1971	1972	1973	1974	1975	1976
Siliguri	352.1	300.3	335.0	328.7	302.4	380.6	337.4	356.5
Alipurduar	210.3	150.1	166.0	159.5	210.0	141.0	95.9	178.4

Year	1977	1978	1979	1980	1981	1982	1983	1984
Siliguri	280.2	430.0	340.9	365.2	339.1	266.3	344.9	324.0
Alipurduar	192.0	122.2	201.0	167.0	222.8	140.3	157.2	148.0

Year	1985	1986	1987	1988	1989	1990
Siliguri	343.4	305.2	228.0	410.1	364.3	370.8
Alipurduar	136.5	164.5	172.3	176.4	167.2	170.0

4. Selection by lottery (attempt any one) :

(a) Read the dry and wet bulb thermometer and record them in proper table. Calculate the relative humidity of air with the help of humidity chart. What are the effects of relative humidity in daily life? 8+2

(b) Read the height of the mercury of the barometer accurately and record it in proper table. Determine atmospheric pressure in mb with necessary temperature correction.

What type of weather you may experience if there is quick fluctuation of mercury column. 8+2

(c) Measure the pH value of soil from the supplied sample with the help of soil kit. Convert the reciprocal of  $\log 10^{-9}$  and mention the amount of ion content of the soil. 8+2

5. Identify five specimens of rocks and minerals stating atleast two characteristics of each specimen. 10

6. Field Report and Viva-voce on it. 20+10

6. Laboratory Note Book and Viva-voce. 5+5

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