

Bago University
Department of Geography
Second Semester Examination, September, 2019

First Year (B.A)
(Geography Specialization)

Geog.1104
Map Work and Basic Techniques II
Time allowed (3) hours

Answer the All questions. Illustrate your answer with sketch maps and diagrams wherever necessary.

1. On the weather map provided,
 - (a) Draw isobars at 2 mb intervals,
 - (b) Indicate the low pressure area and high pressure area,
 - (c) Locate the center of the storm,
 - (d) Show the rainfall area on the map.
2. The station for interpretation of the given climate data. (Temperature Fahrenheit and Rainfall in inches).
 Adelaide (Australia)

Months	J	F	M	A	M	J	Jy	A	S	O	N	D	Avg/Total
Temperature (°F)	74	74	70	64	58	54	52	54	57	62	67	71	63
Rainfall (in inches)	0.7	0.7	1.0	1.8	2.8	3.1	2.7	2.5	2.0	1.7	1.2	1.0	21.2

3. (a) Find the latitude and longitude of a place, which is 3105 miles along the meridian north of the equator and 6240 miles west along the parallel from the meridian of Greenwich.
 (Cos 45° = 0.7071)
- (b) Assuming the earth to be sphere with the radius of 3960 miles. (Cos 30° = 0.8660)
 - (i) Find the radius of 30° of latitude.
 - (ii) Determine the total length of 30° of latitude.
 - (iii) Find the length of 10° of longitude along that parallel.
4. The local mean time at Calcutta was based on longitude 87° 30' East. When the local mean time at Calcutta was 5:30 p.m., the local mean time at a place X was 1:30 p.m. What is the longitude of X?
5. Compute the Longitude and Latitude of a plane using the data given below:-
 Time of observation showed 18 hrs 25 m 45 sec. G.M.T. Attitude of the sun was 50°15'12" north of zenith Declination of the sun at the instant of observation was 10° 30' 17" north. Equation of time on that day was 15 m. 20 sec. (to be subtracted from the apparent time).

Roll No.

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