Sample Questions for Tests of GEOG380

- **Q.** The size of which body of water is most distorted on a Mercator projection?
- a) Lake Michigan
- b) Arctic Ocean
- c) Bay of Bengal (which is on India's east coast)
- d) Atlantic Ocean
- e) Mediterranean Sea
- Q. The distance between two known points on a map is 20 miles. What is the scale of a map on which the points are 1.584 inches apart? (There are 63,360 inches in a mile). Show all work for complete credit.
- **Q.** Which case has potentially less distortion on projections, the tangent or secant case? Motivate your

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Q. What is the total number of degrees of longitude in the southern hemisphere of the Earth?

dPlease use this file to answer the questions and submit either a hard copy to the anstructor or a digital copy to the "WS1" dropbox on the BeachBoard.)

Assigned date: 9/4/2018 **Due date:** Start of Class, 9/11/2018 Cracking to the distinct of the continue of the course of the course of the continue of the co appropriately. Show your work.

Instructions for Q1 and Q2 Terminology quiz Based on lecture notes 03_1&03_2, chapter 3 pp.51-52, answer the following two questions.

Provide the correct term (use word bank below) to the following definitions (2,5) [2 points each]

(-4,3) The term used to describe the true shape of the earth without (1,2)referring to a mathematical model

the scale of the reference globe Figure 1. Point objects of "set A" (map not to scale)

____ a projection that preserves distance

1. What is the mean center of the given points of set A in Figure 1? Show ALL of your

[10 points] Word banks for full credits.

Azimuth reference maps chart

Loxodrome graticule projection aspect

Geoid symbol dimensions nominal scale

Meridian map projection systematic sampling

antipodal point conformal continuous

ellipsoid classification equidistant

equivalent azimuthal discrete

generalizations the standard distance of the given points in Figure 1? Show ALL of your work symbolization. Census scale factor of normalia below to answer the question. [15 points]

population you have another set of points, say set B, and if the standard distance of the set B is 4, is the set A more compact or dispersed than set B? [5 points]

$$d = \sqrt{\frac{\sum_{i=1}^{n} ((x_i - \mu_x)^2 + (y_i - \mu_y)^2)}{n}}$$