

**GEOG205 Winter 2022 UTM quiz (5%): return answers by Jan 19,10am**

1. We need the UTM system because the length of one degree of longitude varies greatly with latitude. What is the relative length in % of 1° longitude compared to 1° latitude at 60°N (the boundary of the western provinces and the territories)?

- a.10                      b. 20                      c. 30                      **d. 50**                      e.100

2. How many UTM zones are there across the globe?

- a.10                      b. 24                      c. 36                      **d. 60**                      e. 360

3. How wide is each UTM zone in degrees longitude ?

- a. 6**                      b. 10                      c. 16                      d. 20                      e. 60

4. The 0 value for Northings in each UTM zone is located at ?

- a. North Pole    b. Arctic Circle    c. 45° North    d. Tropic of Cancer    **e. Equator**

5. The 0 value for UTM Eastings in each zone is located at ?

- a. Central Meridian (CM)    **b. west of CM**    c. Greenwich    d. 180°W    e. zone edge

6. What units are UTM coordinates measured in ?

- a. Degrees                      b. Miles                      **c. Metres**                      d. Yards                      e. Firkins

7. The maximum possible UTM Eastings value in a zone in BC is approximately ?

- a. 300,000                      b. 500,000                      **c. 700,000**                      d. 1,000,000                      e. 111 km

8. The maximum possible UTM Northings value in BC is approximately ?

- a. 1,000,000                      b. 3,000,000                      c. 5,000,000                      **d. 7,000,000**                      e. 9,000,000

9. In Canada, UTM Northings are always 7-digit; where could you find 6 digit northings?

- a. Colombia**                      b. USA                      c. Russia                      d. UK                      e. China

10. UNBC is located at ~ 512000 Eastings (UTM zone 10). Where is this relative to the zone central meridian ?

- a. 512 km west    **b. 12 km east**    c. 120km west    d. 120 km east    e. on the meridian