**Lab 6: Air photos (Total marks: 46)**

**Q1:** 1975, 1:20000, 305mm **(1)**

**Q2:** Burns Lake **(1)**

**Q3: show work for 2 marks each calculation  
1:1000 (2)**5in x 5in = 12.7cm x 12.7cm (multiply by scale to get ground area) =  
12700cm x 12700cm = 1270m x 1270m = 1612900m2 = **161.29 ha  
1:12000 (2)**5in x 5in = 12.7cm x 12.7cm = 152400cm x 152400cm = 1524m = 1524m = 2322576m2 = **232.25ha  
1:30000 (2)  
1451ha**

**Q4:** 1993, 305mm, 1:15000 **(1)**

**Q5:** Omineca Mountains **(1)**

**Q6:** Because of the large differences in elevation across the image. The mountain tops are closer to the camera relative to the valleys, thus the map scale is different (larger in the valley bottoms). **(2)**

**Q7:** 0.305/(6393-2030) = 0.305/4363 = 7:100000 = 1:14285 or 1:14306 **(2)**

**Q8: (5)** for accuracy and presentation of photos

**Q9:** **(2)** 1 mark for listing land cover and 1 mark for listing urban features

Q10: **(8)** 4 marks for describing how to identify land cover in terms of texture, shade and shape  
4 marks for describing the urban features

**Image of air photo with 3 features labeled A,B,C and the calculated ground area (6)**

**Q11: (5) for complete control point table**

**Q12: (3) for air photo overlaid modern basemap imagery with transparency adjusted**

**(3) Description of land cover change occurring in the image**