**Marking Key – Great Race**

**Itinerary**

**(18 marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Flight | From | To | Departure Time  (local time) | Departure Day/Date | Arrival Time  (local time) | Arrival Day/Date |
| 1 | Sydney | Brisbane | 3:15 pm | Sat 18/11 | 3:45 pm | Sat 18/11 |
| 2 | Brisbane | Perth | 5:30 pm | Sat 18/11 | 9:10 pm | Sat 18/11 |
| 3 | Perth | Beijing | 10:10 pm | Sat 18/11 | 7:04 am | Sun 19/11 |
| 4 | Beijing | New York | 8:04 am | Sun 19/11 | 8:29 am | Sun 19/11 |

**B1 Coordinates of Perth: 32° S 116° E**

**Coordinates of Beijing: 40° N 116° E**

**B2** D = x 2 x π x 6370 = 8004.8 km (Accept 8005) F.T.

**B3** 8004.8 ÷ 900 = 8.9 hrs (8 hrs 54 mins)

**B4** 8004.8 x 12 = 96057.6 L F.T.

**B5** F.T.

**C1** New York

**C2** 8 ahead for Beijing

5 behind for New York

**C3** 13 hours