

## TEST YOU KNOWLEDGE - COMM. LEVEL – NAVIGATION QUESTIONS

1. A kilometre is
  - a) 1/10 000 part of the distance from the North to the South pole
  - b) 1/10 000 part of the distance from the Greenwich meridian to the Greenwich anti-meridian
  - c) neither of the above
  
2. The convergency between 173°W and 173°E is 6° in the Southern Hemisphere. The great circle track from a position on the 173°E meridian to a position on the 173°W meridian is 090°T. The rhumb line track in the other direction is
  - a) 270°
  - b) 267°
  - c) 263°
  
3. Flying over the N48 parallel, the distance between two fixes which are taken 25 minutes apart, is 17.9 cm on a Mercator chart. The scale of the chart is 1 : 3 000 000 at N15. The groundspeed is
  - a) 200.9 kts
  - b) 583.8 kts
  - c) 482 kts
  
4. If the maximum crosswind component for an aircraft is 15 kts on the active runway 18 at Rome (Fiumicino) and the wind is 225/20, then
  - a) the maximum crosswind component limit is exceeded
  - b) the crosswind component exceeds the headwind component
  - c) the maximum crosswind component limit is not exceeded
  
5. The distance from NAMON to DORFA is 130 nm, track 080°T. Heading 086°T is set from NAMON to compensate for wind. 45 nm from NAMON, a fix is obtained 6 nm left of track. The new track to DORFA from the fix is
  - a) 098°T
  - b) 084°T
  - c) 088°T
  
6. The LMT of sunrise will be the same for
  - a) all places with common latitude
  - b) all places with common longitude
  - c) neither of the above
  
7. On Lambert's charts in the Southern hemisphere a rhumb line track of 293° is
  - a) concave to the Equator
  - b) a straight line
  - c) convex to the Equator
  
8. Day and night occur as a result of
  - a) the elliptical orbit of the earth around the sun
  - b) the rotation of the earth around its own axis
  - c) the inclination of the rotational axis of the earth of +/- 23°
  
9. When overhead Port Elizabeth at 1145z at 168 KTAS, ATC requests that an inbound Baron should be intercepted. The Baron TAS is 150 mph and is 80 nm out from PEV. The interception will occur at a time and range from PEV of
  - a) 1202z/44 nm
  - b) 1201z/45 nm
  - c) 1159z/43 nm

10. An Airbus A340 flies from London (N50 34 W000 45) to New York (N42 14 W082 15) in 6:24 and arrives at 1600 Standard Time on 4<sup>th</sup> January. If the Airbus departs London at 1503 LMT, the standard time factor at New York is

- a) 6 hours                      b) 6:30                      c) 5:30

**ANSWERS**

1. C	2. B	3. C.	4. C	5. B	6. A.
7. C	8. B	9. B	10. C		