

External assessment

Multiple choice question book

Aerospace Systems

General instruction

- Work in this book will not be marked.



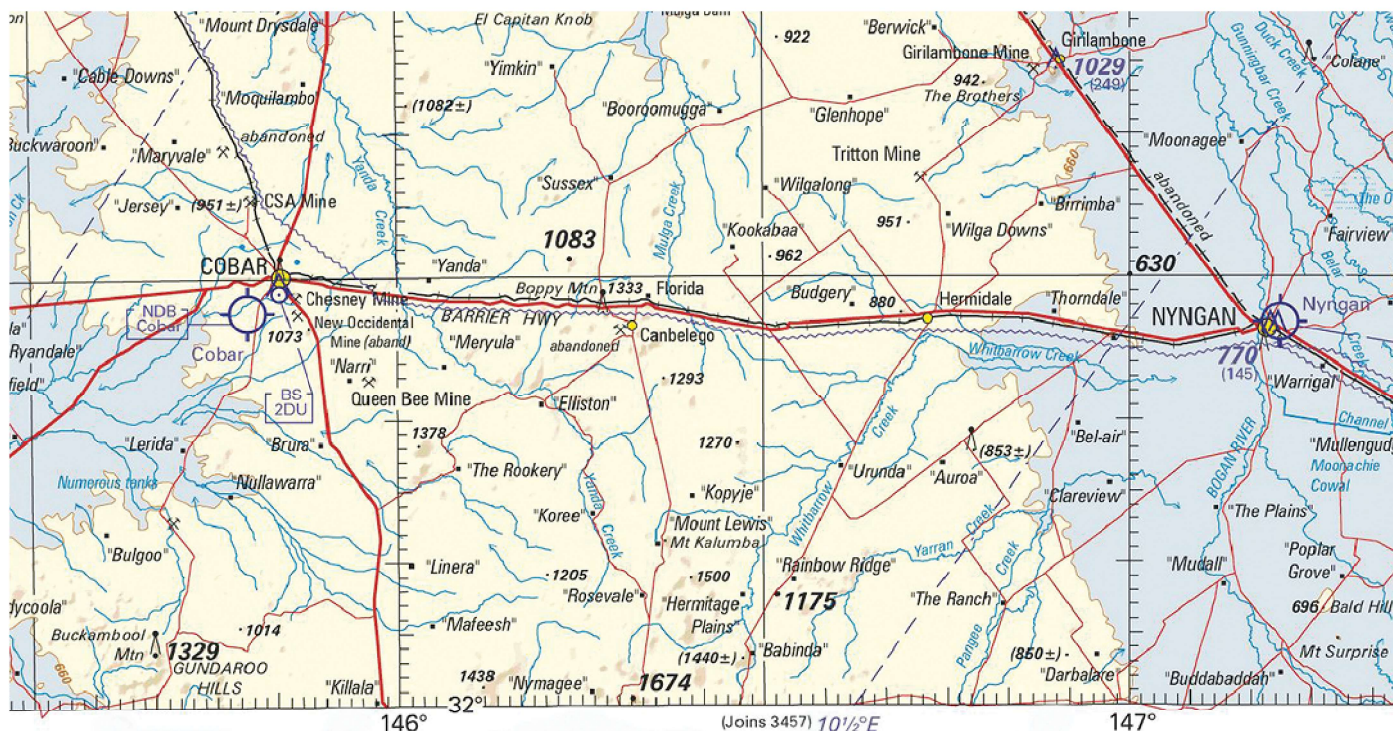
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Section 1

QUESTION 1



A VFR aircraft on a flight from Cobar to Nyngan would most likely maintain an altitude of

- (A) 5333 ft.
- (B) 5500 ft.
- (C) 6500 ft.
- (D) 8500 ft.

QUESTION 2

A component of an aircraft's cabin pressurisation system is the

- (A) load meter.
- (B) outflow valve.
- (C) selector valve.
- (D) impact pressure chamber.

QUESTION 3

The Australian ADS-B system uses a transponder that operates at

- (A) 136.975 MHz.
- (B) 978 MHz.
- (C) 1030 MHz.
- (D) 1090 MHz.

QUESTION 4

An aircraft with a TAS of 155 kt is on a heading of 220° M at a 15° right drift angle, when the wind direction changes from 295/35 M to 145/15 M. What is the new heading required to maintain the aircraft's original track?

- (A) 248° M
- (B) 229° M
- (C) 222° M
- (D) 200° M

QUESTION 5

An aircraft en route to an airfield at a GS of 145 kt has an ETA of 1425 local time. At 1100 local time the aircraft experiences a tailwind of 15 kt. What is the revised ETA at the airfield?

- (A) 1357 local time
- (B) 1401 local time
- (C) 1406 local time
- (D) 1425 local time

QUESTION 6

The altitude directly related to aircraft performance is

- (A) true altitude.
- (B) density altitude.
- (C) absolute altitude.
- (D) indicated altitude.

QUESTION 7

A side effect of a pilot's use of alcohol that would affect the safe operation of an aircraft is

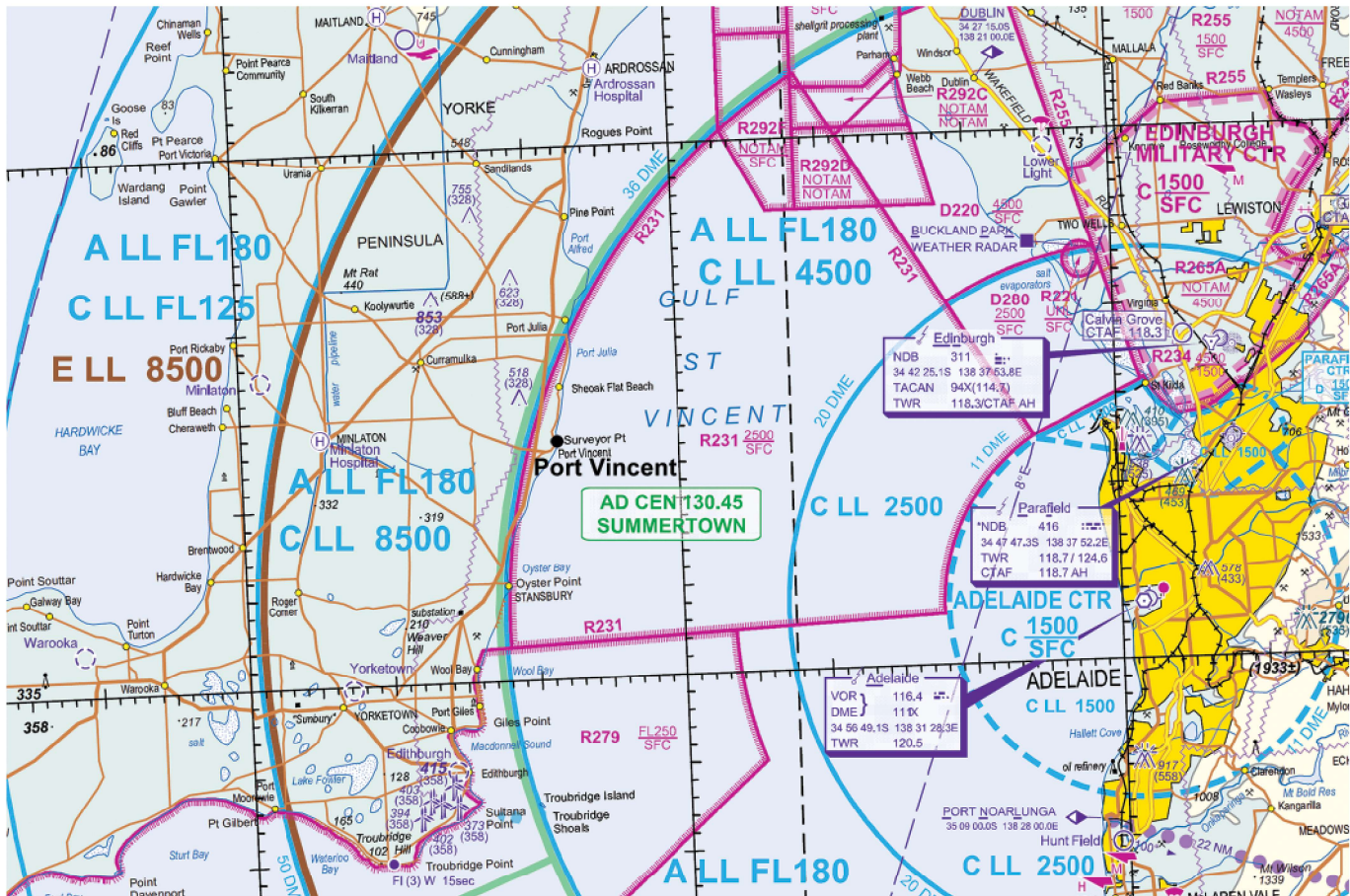
- (A) shakiness.
- (B) rapid heart rate.
- (C) inner ear disturbance.
- (D) impaired night vision.

QUESTION 8

An aircraft is en route on a 490 nm flight from Nightcliff to Kununurra. After travelling 210 nm, the pilot realises that they are 14 nm off track to the left. What is the closing angle required for a landing at Kununurra airfield?

- (A) 7° right
- (B) 4° right
- (C) 3° right
- (D) 1° right

QUESTION 9



An aircraft over Port Vincent at 8500 ft is in what class of airspace?

- (A) A class
- (B) C class
- (C) E class
- (D) G class

QUESTION 10

A pilot approaching a downward sloping runway on the correct glide slope will receive the illusion that the runway is

- (A) shorter than its actual length, and the aircraft is lower than its actual glide slope.
- (B) shorter than its actual length, and the aircraft is higher than its actual glide slope.
- (C) longer than its actual length, and the aircraft is lower than its actual glide slope.
- (D) longer than its actual length, and the aircraft is higher than its actual glide slope.

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References

Questions 1 and 9

Sentient Software 2017, AirNav VFR flight planner, www.sentientsoftware.com.au.

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