

# Exam simulation

EASA PPL(A) - Private Pilot License - Aircraft General Knowledge



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STUDENT NAME:

DATE AND TIME:

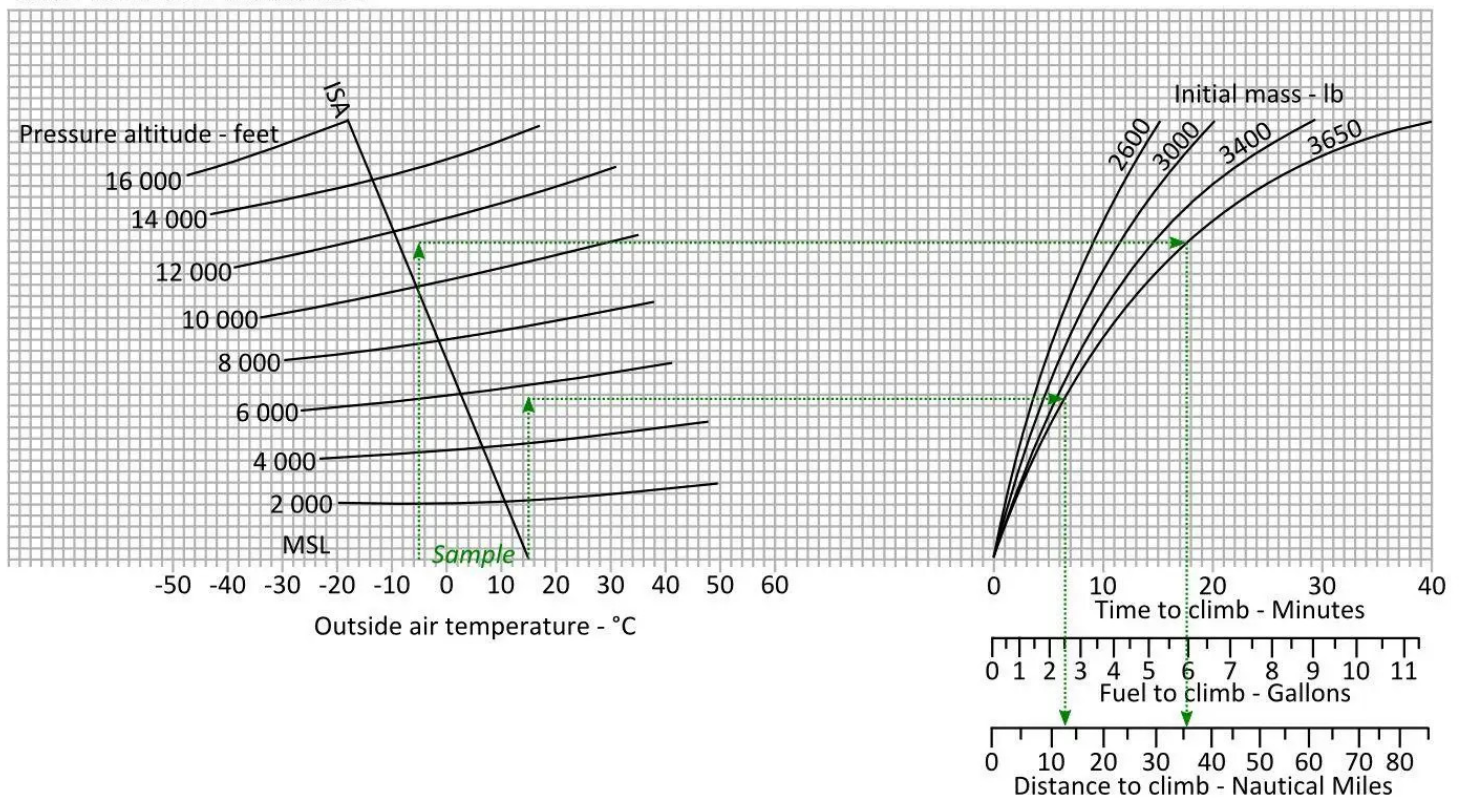
**01. At which airspeed do you climb to flight level (FL) 75 after a departure from an airfield which is located at a pressure altitude of 3000 ft with an initial mass of 3000 lbs? OAT at airfield: 25° C OAT in FL 75: 0° C See annex (PFP-023)**

**Conditions:**

- POWER: Full throttle, 2700 RPM
- MIXTURE: Full rich
- WING FLAPS: Up
- COWL FLAPS: As required
- CLIMB SPEED: 110 kt all masses

PFP-023

### TIME, FUEL AND DISTANCE TO CLIMB



- a) 90 kt
- b) 120 kt
- c) 110 kt
- d) 100 kt

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## 02. A runway incursion risk is reduced by...

---

- a) clear readbacks, situational awareness and stopping if unsure
- b) taxiing faster
- c) ignoring hold short markings
- d) turning off the radio

## 03. Which statement about emergency communication is correct for a PPL(A) pilot?

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- a) Aviate first, then communicate the essential information when workload permits
- b) Transmit before controlling the aircraft
- c) Keep talking continuously
- d) Never ask for assistance

## 04. Which performance or flight planning statement is correct? Aft centre of gravity normally...

---

- a) It is set by the transponder
- b) It is a maintenance interval
- c) reduces longitudinal stability
- d) increases stability in all cases

## 05. What happens to the true airspeed at a constant indicated airspeed during a climb?

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- a) It decreases
- b) It increases
- c) It remains constant below 5000 ft
- d) It remains constant above 5000 ft

## 06. What should a private pilot remember about oil pressure?

---

- a) Abnormal oil pressure requires prompt checklist action and monitoring
- b) It is a runway marking
- c) It is unrelated to engine health
- d) It has no operational significance

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## 07. The compass error caused by the aircraft's magnetic field is called...

---

- a) Variation
- b) Declination
- c) Inclination
- d) Deviation

## 08. Which statement is correct? The vertical stabiliser contributes mainly to...

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- a) directional stability
- b) It changes the aircraft registration
- c) It is unrelated to airworthiness
- d) It is used only in multi-engine aeroplanes

## 09. In day-to-day private flying, which statement is correct for stress?

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- a) It can narrow attention and degrade decision-making
- b) It is relevant only above FL200
- c) It always improves reaction time
- d) It is unrelated to workload

## 10. How should contaminated runway operation be understood by a private pilot?

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- a) Performance and directional-control margins may be reduced
- b) It is decided only by passengers
- c) It applies only during cruise
- d) It is used only for IFR flights

## 11. Who provides search and rescue service?

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- a) Only military organisations
- b) International approved organisations
- c) Only civil organisations
- d) Both military and civil organisations

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## 12. What is the purpose of engine oil in a piston engine?

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- a) Cooling, lubrication of the engine and disposal of fine abrasion.
- b) Cooling of the engine and lubrication of propeller shaft.
- c) For nose reduction and bearing of the propeller shaft.
- d) Cooling, lubrication and increasing engine performance.

## 13. What does a readability of 5 indicate?

---

- a) The transmission is readable now and then
- b) The transmission is readable but with difficulty
- c) The transmission is unreadable
- d) The transmission is perfectly readable

## 14. Which operational procedure statement is correct? If water is found in a fuel sample, the pilot should...

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- a) It should be ignored if workload is high
- b) ignore it if the tanks are full
- c) It applies only during cruise
- d) continue draining and investigate until fuel is clean and safe

## 15. The white arc on an airspeed indicator normally represents...

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- a) the never-exceed speed
- b) the manoeuvring speed
- c) the flap operating range
- d) the best glide speed only

## 16. What is the correct operational meaning of a danger area?

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- a) activities dangerous to flight may exist during notified periods
- b) It is decided only by the passenger
- c) It is used only after landing
- d) It automatically cancels weather minima

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**17. What is the meaning of a flashing green light signal at a controlled aerodrome directed to an aircraft on ground?**

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- a) Cleared to taxi
- b) Return to starting point
- c) Land at this airport and proceed to the apron
- d) Cleared for take-off

**18. Stall speed increases with...**

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- a) increased load factor
- b) lower mass
- c) lower load factor
- d) higher temperature only

**19. Which gauges involve a measurement of temperature?**

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- a) Engine lubricant, exhaust gas, outside air, cabin air, directional gyro
- b) Engine lubricant, cylinder head, exhaust gas, suction, outside air, cabin air
- c) Engine lubricant, engine cooling fluid, cylinder head, exhaust gas, outside air, cabin air
- d) Engine oil, cylinder head, exhaust gas, altimeter, airspeed indicator, vertical speed indicator

**20. What does the term "confirmation bias" mean?**

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- a) The feedback loop in a closed communication
- b) The preference to find arguments to proof the own mental model
- c) The bias to confirm each radio call
- d) The critical check of ambiguous situations in flight

**21. The Pitot / static system is required to...**

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- a) Prevent potential static buildup on the aircraft.
- b) Correct the reading of the airspeed indicator to zero when the aircraft is static on the ground.
- c) Measure total and static air pressure.
- d) Prevent icing of the Pitot tube.

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**22. Which operational procedure statement is correct? Low-level turns should be avoided because...**

---

- a) stall margin and recovery height are reduced
- b) airspeed is always higher
- c) It is decided only by passengers
- d) It is a fuel grade

**23. In normal private flying, which statement about climb performance is correct?**

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- a) It changes aircraft registration
- b) It is unrelated to runway surface
- c) It may be limiting when obstacles, high mass or high density altitude are present
- d) It removes fuel reserve requirements

**24. What is correct about GNSS?**

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- a) It is a valuable navigation aid but should be monitored and cross-checked
- b) It cancels controlled airspace limits
- c) It improves radio readability only
- d) It replaces legal weather minima

**25. The elevator controls movement around the...**

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- a) lateral axis
- b) longitudinal axis
- c) vertical axis
- d) static axis

**26. In which way is a SEP (land) rating renewed if you do not meet the required flight time?**

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- a) A proficiency check with an examiner
- b) According to the flight experience there have to be several training flights under supervision of an ATO
- c) The ATO can renew the rating after a training flight with a flight instructor
- d) The required flight experience has to be accumulated under supervision of a flight instructor

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## 27. Which meteorological statement is correct? Surface friction causes wind to...

---

- a) It determines aircraft empty mass
- b) It is a radio licence condition
- c) It changes magnetic variation
- d) cross isobars towards lower pressure

## 28. POH take-off distance is 700 m. If planning conservatively for high density altitude with a factor of 1.25, what distance should be allowed?

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- a) 700 m
- b) 955 m
- c) 795 m
- d) 875 m

## 29. Which practical rule applies to airframe icing?

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- a) It is most likely in visible moisture at temperatures near or below freezing
- b) It affects only the radio
- c) It is unrelated to wind or cloud
- d) It changes magnetic variation

## 30. Wake turbulence from a heavier aircraft is strongest when it is...

---

- a) heavy, slow and clean
- b) light, fast and parked
- c) taxiing with engine off
- d) descending with no lift

## 31. In airspace class G, what should a PPL(A) pilot remember when planning a diversion?

---

- a) it is uncontrolled airspace
- b) It automatically cancels weather minima
- c) It concerns fuel grade only
- d) It is replaced by the journey log

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**32. In the ICAO spelling alphabet, the letter U is transmitted as...**

---

- a) Uniform
- b) Alpha
- c) Alfa Romeo
- d) Nectar

**33. Which statement about confirmation bias is correct for a PPL(A) pilot?**

---

- a) It guarantees correct decisions
- b) It improves weather minima
- c) It replaces alternates
- d) It can make a pilot favour information that supports the desired plan

**34. Which kind of engine is susceptible to carburettor fire?**

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- a) Piston engines
- b) Turbine engines
- c) Electric motors
- d) Turboprop engines

**35. What is shown on the printed sign? See figure (ALW-020)**

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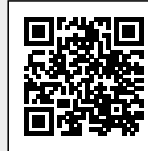


ALW-020

- a) 2500 m in the stated direction till reaching the parking area
- b) From this intersection the available runway length is 2500 m in the stated direction
- c) The complete length of the runway in the stated direction is 2500 m
- d) 2500 m in the stated direction till reaching the departure point of the runway

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## 36. For a VFR private pilot, what should be remembered about ground effect?

---

- a) It reduces induced drag close to the ground and can affect landing and take-off behaviour
- b) It is a navigation radio error
- c) It changes aircraft registration
- d) It is measured in litres

## 37. What does a readability of 3 indicate?

---

- a) The transmission is readable now and then
- b) The transmission is perfectly readable
- c) The transmission is readable but with difficulty
- d) The transmission is unreadable

## 38. In the ICAO spelling alphabet, the letter D is transmitted as...

---

- a) Alpha
- b) Alfa Romeo
- c) Nectar
- d) Delta

## 39. Which operational procedure statement is correct? Smoke in the cockpit requires...

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- a) switch off the transponder first
- b) aviate, ventilate as appropriate, isolate the source and land as soon as practical
- c) It is used only for IFR flights
- d) It changes magnetic variation

## 40. A pilot wants to approach an NDB on QDM 090°. The aircraft flies for about 5 minutes with a magnetic heading (MH) of 095° and an RBI indication of 355°. After 6 minutes the RBI indicates 358°. Which statement is correct?

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- a) The crosswind component increased; the pilot has to increase the MH
- b) The crosswind component increased; the pilot has to decrease the MH
- c) The crosswind component decreased; the pilot has to increase the MH
- d) The crosswind component decreased; the pilot has to decrease the MH

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## 41. When preparing a PPL(A) flight, what is correct about true course and magnetic course?

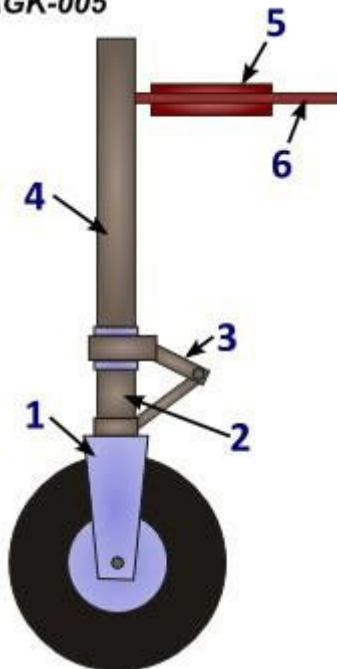
- a) Magnetic variation is applied to convert between true and magnetic directions
- b) Deviation is the same as wind drift
- c) It is a passenger briefing item
- d) It is used only after landing

## 42. Which option correctly describes stress?

- a) It can narrow attention and degrade decision-making
- b) It is a radio navigation error
- c) It is useful only after landing
- d) It removes workload

## 43. Number 2 on the gear designates the... See figure (AGK-005)

AGK-005



- a) Fork
- b) Torque link
- c) Fixed outer cylinder
- d) Movable inner cylinder

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## 44. Which practical rule applies to GNSS?

---

- a) It is a valuable navigation aid but should be monitored and cross-checked
- b) It removes the need for airspace awareness
- c) It replaces legal weather minima
- d) It replaces fuel planning

## 45. In airspace class D, what should a PPL(A) pilot remember when planning a diversion?

---

- a) It applies only to commercial air transport
- b) It automatically cancels weather minima
- c) ATC clearance is required before entering controlled airspace
- d) It removes pilot-in-command responsibility

## 46. Smoke enters the cockpit during an engine fire. Which actions have to be taken immediately?

---

- a) Switching off the master switch and the ignition
- b) Switching off the heating and the ventilating system
- c) Switching off the pitot and front window heating
- d) Switching off the avionics and the cabin lighting

## 47. During a local VFR flight, what is the correct operational meaning of groundspeed?

---

- a) It is a passenger briefing item
- b) It changes aircraft mass
- c) It is speed over the ground and is affected by wind
- d) It is a runway surface code

## 48. What is the correct way of acknowledging the instruction "Squawk 4321, Call Bremen Radar on 131.325"?

---

- a) Roger
- b) Squawk 4321, wilco
- c) Squawk 4321, 131.325
- d) Wilco

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**49. Which performance or flight planning statement is correct? An uphill runway slope on take-off normally...**

---

- a) It is checked only after landing
- b) It is set by the transponder
- c) increases take-off distance
- d) It removes fuel reserve requirements

**50. During VFR flight planning, how should contaminated runway operation be understood by a private pilot?**

---

- a) Performance and directional-control margins may be reduced
- b) It applies only during cruise
- c) It is unrelated to runway condition
- d) It changes magnetic variation

**51. Which statement is correct for spatial disorientation?**

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- a) It always improves reaction time
- b) It is unrelated to workload
- c) It is more likely when visual references are poor or misleading
- d) It is a maintenance issue

**52. For safe PPL(A) operation, what is required before a VFR pilot enters controlled airspace when clearance is required?**

---

- a) A transponder alone is always sufficient
- b) The required clearance or permission must be obtained before entry
- c) It may be ignored on local VFR flights
- d) It is used only after landing

**53. When preparing a PPL(A) flight, what is correct about cumulonimbus?**

---

- a) It is associated with thunderstorms, severe turbulence, icing, hail and wind shear
- b) It applies only to turbine aircraft
- c) It determines aircraft empty mass
- d) It is a runway marking

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## 54. Which practical rule applies to pressure gradient?

---

- a) It is a runway marking
- b) It applies only to turbine aircraft
- c) A stronger gradient normally indicates stronger wind
- d) It is an aircraft maintenance forecast

## 55. Which statement about runway clearances is correct for a PPL(A) pilot?

---

- a) They are optional at controlled aerodromes
- b) They are never read back
- c) Take-off, landing, crossing and backtrack clearances require careful readback
- d) They are passenger instructions

## 56. Given: Calibrated airspeed (CAS): 155 kt. Flight level (FL) 80. Outside air temperature (OAT): +15° C. The true airspeed (TAS) equals...

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- a) 155 kts.
- b) 170 kts.
- c) 180 kts.
- d) 134 kts.

## 57. Which statement about a blocked static source is correct for a PPL(A) pilot?

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- a) It affects only the magnetic compass
- b) It improves engine cooling
- c) It changes the aircraft registration
- d) It can affect the altimeter, VSI and airspeed indicator

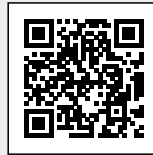
## 58. In which situation is it NOT possible to achieve a pressure compensation between the middle ear and the environment?

---

- a) During a light and slow climb
- b) All windows are completely closed
- c) Breathing takes place using the mouth only
- d) The Eustachian tube is blocked

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## 59. What is the correct operational meaning of ATC clearance?

---

- a) It authorises a flight to proceed subject to specified conditions
- b) It is a runway lighting signal only
- c) It is the same as a weather forecast
- d) It is decided only by the passenger

## 60. What chart shows areas of precipitation?

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- a) GAFOR
- b) Wind chart
- c) Satellite picture
- d) Radar picture

## 61. For a VFR private pilot, what should be remembered about a certificate of airworthiness?

---

- a) It is a maintenance planning document
- b) It is used only by helicopters
- c) It replaces pilot licensing
- d) It supports the aircraft's legal airworthiness status together with required continuing-airworthiness documents

## 62. Which phrase does a pilot use when he / she wants to check the readability of his / her transmission?

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- a) What is the communication like?
- b) How do you read?
- c) Request readability
- d) You read me five

## 63. For safe PPL(A) operation, how should density altitude be understood?

---

- a) Higher density altitude reduces take-off, climb and landing performance margins
- b) It is checked only after landing
- c) It is a passenger comfort item only
- d) It is set by the transponder

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## 64. What is the call sign of the flight information service?

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- a) Info
- b) Advice
- c) Flight information
- d) Information

## 65. In case of an emergency ditching, the life vests have to be inflated...

---

- a) Before disembarking the aircraft.
- b) During disembarking the aircraft.
- c) After disembarking the aircraft at a safe distance of about 10 m.
- d) After disembarking the aircraft.

## 66. Which meteorological statement is correct? A cold front often brings...

---

- a) It always improves visibility
- b) It guarantees smooth air
- c) showery precipitation and a wind shift
- d) It means the aircraft is unserviceable

## 67. In practical private flying, what should a private pilot remember about wind correction angle?

---

- a) It is a passenger briefing item
- b) It is a runway surface code
- c) It is applied to maintain the desired track over the ground
- d) It guarantees terrain clearance

## 68. Special VFR may be authorised... when planning entry into controlled airspace

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- a) It removes pilot-in-command responsibility
- b) in any prohibited area without clearance
- c) It applies only to commercial air transport
- d) by ATC within a control zone when the applicable conditions are met

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**69. From which altitude on does the body usually react to the decreasing atmospheric pressure?**

---

- a) 2000 feet
- b) 7000 feet
- c) 10000 feet
- d) 12000 feet

**70. How should rejected take-off be understood by a private pilot?**

---

- a) It is never allowed on grass
- b) It is decided only by passengers
- c) It should be made early if acceleration, control or runway remaining is unsatisfactory
- d) It applies only during cruise

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## Response Scheme

Compare your answers with the following diagram and mark your score!

01: C	02: A	03: A	04: C
05: B	06: A	07: D	08: A
09: A	10: A	11: D	12: A
13: D	14: D	15: C	16: A
17: A	18: A	19: C	20: B
21: C	22: A	23: C	24: A
25: A	26: A	27: D	28: D
29: A	30: A	31: A	32: A
33: D	34: A	35: B	36: A
37: C	38: D	39: B	40: A
41: A	42: A	43: D	44: A
45: C	46: B	47: C	48: C
49: C	50: A	51: C	52: B
53: A	54: C	55: C	56: C
57: D	58: D	59: A	60: D
61: D	62: B	63: A	64: D
65: D	66: C	67: C	68: D
69: B	70: C		

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## Response form

Use this form to mark your answers

01: _____	02: _____	03: _____	04: _____
05: _____	06: _____	07: _____	08: _____
09: _____	10: _____	11: _____	12: _____
13: _____	14: _____	15: _____	16: _____
17: _____	18: _____	19: _____	20: _____
21: _____	22: _____	23: _____	24: _____
25: _____	26: _____	27: _____	28: _____
29: _____	30: _____	31: _____	32: _____
33: _____	34: _____	35: _____	36: _____
37: _____	38: _____	39: _____	40: _____
41: _____	42: _____	43: _____	44: _____
45: _____	46: _____	47: _____	48: _____
49: _____	50: _____	51: _____	52: _____
53: _____	54: _____	55: _____	56: _____
57: _____	58: _____	59: _____	60: _____
61: _____	62: _____	63: _____	64: _____
65: _____	66: _____	67: _____	68: _____
69: _____	70: _____		