

Exam simulation

PPL(H) - Private Pilot License - Navigation



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STUDENT NAME:

DATE AND TIME:

01. A flight plan has been filed for a flight departing at an uncontrolled aerodrome. When has the actual take-off time been transmitted to ATC?

- a) At deviation from expected off-block time by more than 15 min.
- b) Immediately after take-off.
- c) When landing is assured.
- d) Upon request from ATC.

02. Which statement about low rotor RPM is correct?

- a) Increase collective to load the rotor further.
- b) Switch off all radios first.
- c) Reduce collective as required and recover RPM according to the flight manual.
- d) Ignore it if airspeed is low.

03. When transmitter and receiver are moving away from each other...

- a) The perceived frequency decreases.
- b) The perceived frequency equals the transmitted frequency
- c) The perceived frequency increases.
- d) The frequency varies, but the wavelength remains constant.

04. Which action best supports safe management of tail rotor drift?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Ignore it when the helicopter has sufficient fuel.
- d) Anticipate drift during hover and lift-off.

05. Which statement about the rotor disc loading in a horizontal curve is correct?

- a) It decreases with increasing bank angle
- b) It increases with increasing bank angle
- c) No change in relation to the cruise flight
- d) Effects depend on the type of helicopter

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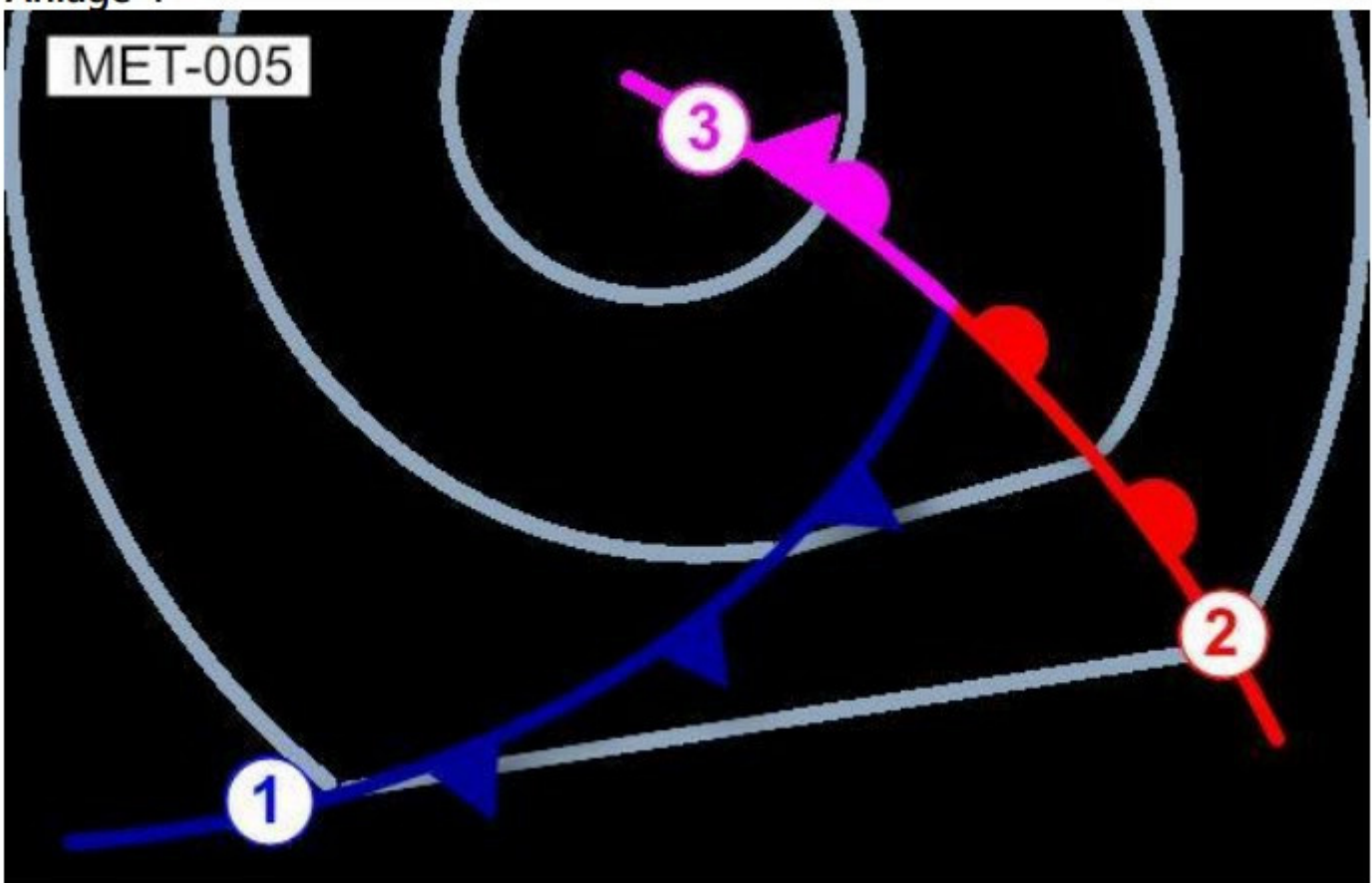


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06. Why is transverse flow effect important for a PPL(H) flight?

- a) It can produce vibration and attitude changes during acceleration.
- b) It is relevant only to airline transport operations.
- c) It can be ignored when the flight remains local.
- d) It is replaced by passenger preference.

07. The symbol labeled (3) as shown in the picture is a / an... Use figure (MET-005)



- a) Cold front.
- b) Occlusion.
- c) Front aloft.
- d) Warm front.

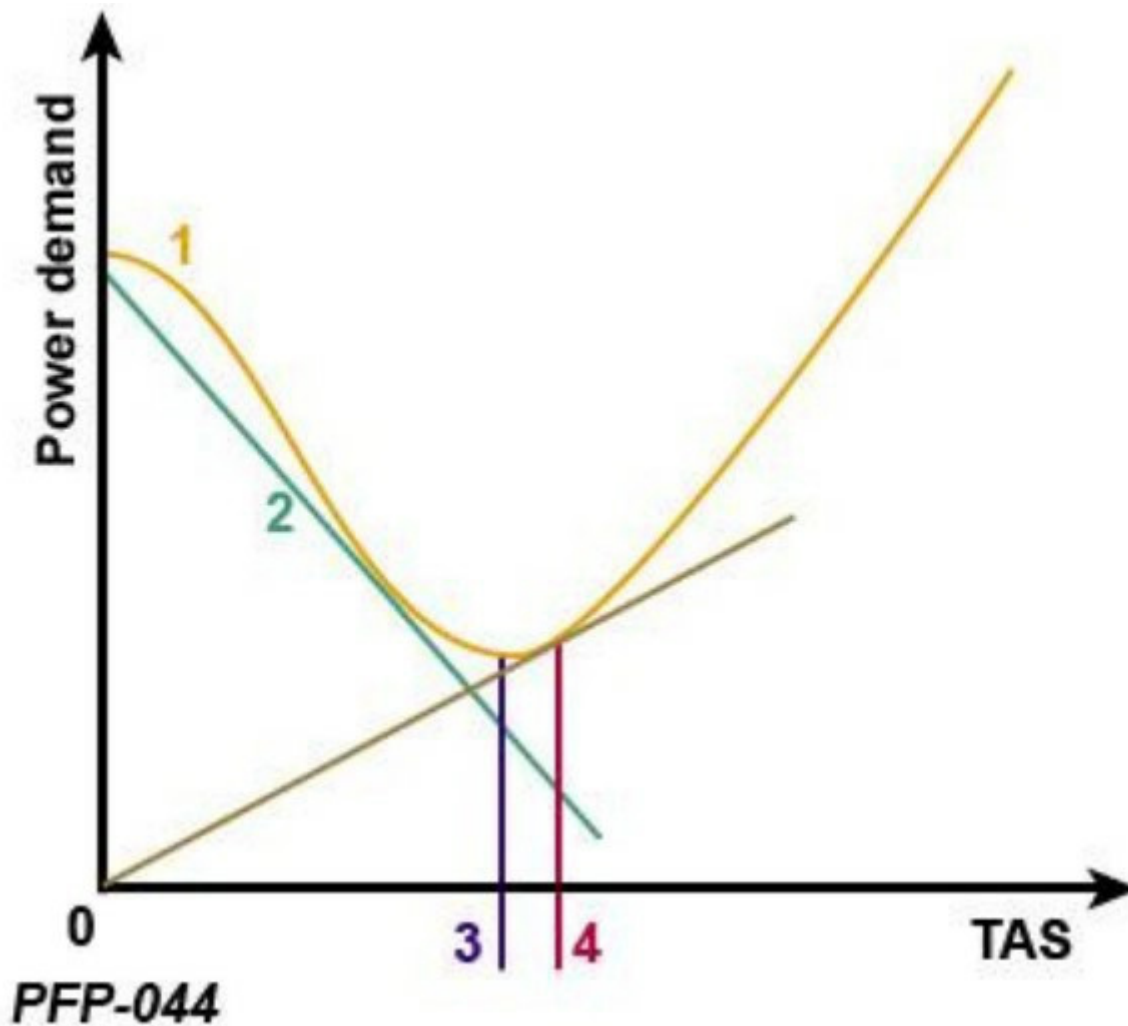
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08. Which point indicates the speed for maximum endurance? Use figure (PFP-044)



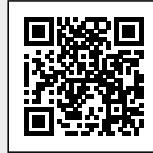
- a) 1
- b) 4
- c) 2
- d) 3

09. What cylinder arrangement is common in helicopters with piston engines?

- a) Boxer engine
- b) Radial engine
- c) Line engine
- d) V-type engine

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10. Which action best supports safe management of stall region in autorotation?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Ignore it when the helicopter has sufficient fuel.
- d) Avoid excessive collective that expands the stall region.

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

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

12. Which statement about torque reaction is correct?

- a) The fuselage tends to rotate opposite to main rotor torque unless balanced.
- b) It is a GPS position error.
- c) It affects only gliders.
- d) It is eliminated by changing QNH.

13. Why is hydration important for a PPL(H) flight?

- a) It is relevant only to airline transport operations.
- b) It can be ignored when the flight remains local.
- c) It supports concentration and reduces fatigue risk.
- d) It is replaced by passenger preference.

14. What does the abbreviation "FIR" stand for?

- a) Flight integrity receiver
- b) Flight information region
- c) Flow information radar
- d) Flow integrity required

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15. What is a likely consequence of gearbox chip warning?

- a) The altimeter automatically resets to standard pressure.
- b) The aircraft becomes exempt from maintenance requirements.
- c) The transponder changes to emergency code automatically.
- d) land as soon as appropriate according to the flight manual.

16. Given: True course from A to B: 352°. Ground distance: 100 NM. GS: 107 kt. Estimated time of departure (ETD): 0933 UTC. The estimated time of arrival (ETA) is...

- a) 1045 UTC
- b) 1029 UTC
- c) 1146 UTC
- d) 1129 UTC

17. Why is fuel valve confirmation important for a PPL(H) flight?

- a) It is relevant only to airline transport operations.
- b) It can be ignored when the flight remains local.
- c) It prevents fuel starvation from incorrect selection.
- d) It is replaced by passenger preference.

18. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are TH and VAR?

- a) TH: 194°. VAR: 004° E
- b) TH: 194°. VAR: 004° W
- c) TH: 172°. VAR: 004° W
- d) TH: 172°. VAR: 004° E

19. Which statement about the swashplate is correct?

- a) It stores hydraulic fluid.
- b) It measures exhaust gas temperature.
- c) It transmits cyclic and collective pitch inputs to the rotating rotor system.
- d) It locks the rotor blades during start.

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20. With regard to global circulation within the atmosphere, where does polar cold air meet subtropical warm air?

- a) At the polar front
- b) At the geographic poles
- c) At the subtropical high pressure belt
- d) At the equator

21. Which statement about a governor is correct?

- a) It replaces the pilot's lookout.
- b) It controls QNH automatically.
- c) It helps maintain selected rotor or engine RPM within its operating range.
- d) It prevents all mast bumping.

22. A precautionary landing is a landing...

- a) Conducted in response to circumstances forcing the aircraft to land.
- b) Conducted with the flaps retracted.
- c) Conducted in an attempt to sustain flight safety.
- d) Conducted without power from the engine.

23. What is meant by "inversion layer"?

- a) An atmospheric layer with constant temperature with increasing height
- b) A boundary area between two other layers within the atmosphere
- c) An atmospheric layer where temperature decreases with increasing height
- d) An atmospheric layer where temperature increases with increasing height

24. Which action best supports safe management of sea fog?

- a) Delay the decision until after take-off.
- b) Consider coastal forecasts and alternates.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

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25. What is the call sign of the flight information service?

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

26. Distress messages are messages...

- a) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight
- b) Concerning the operation or maintenance of facilities which are important for the safety and regularity of flight operations.
- c) Sent by a pilot or an aircraft operating agency which have an imminent meaning for aircraft in flight.
- d) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.

27. Which of the following is NOT a risk factor for hypoxia?

- a) Smoking
- b) Diving
- c) Menstruation
- d) Blood donation

28. What is the correct way of acknowledging "You are now entering airspace Delta"?

- a) Wilco
- b) Entering
- c) Roger
- d) Airspace Delta

29. Which of the following options is NOT a sufficient reason to fly below the required minimum height?

- a) The drop of towed objects at an aerodrome
- b) Bad weather conditions in the vicinity of an aerodrome
- c) Take-off or landing at an aerodrome
- d) An approach without landing at an aerodrome



30. What is the meaning of the abbreviation "SERA"?

- a) Standard European Routes of the Air
- b) Selective Radar Altimeter
- c) Specialised Radar Approach
- d) Standardised European Rules of the Air

31. What is the difference between a locator beacon and a non-directional beacon (NDB)?

- a) Locator beacons transmit more precisely
- b) Locator beacons transmit on request only
- c) Locator beacons have a higher range than NDBs
- d) Locator beacons have a lower range than NDBs

32. Which human-factor point is most relevant? A pilot continues toward deteriorating weather because the destination is close.

- a) The event has no operational relevance.
- b) Plan-continuation bias should be considered.
- c) The correct response is to increase workload.
- d) The pilot should ignore symptoms until after landing.

33. The term "flight time" is defined as...

- a) The period from engine start for the purpose of taking off to leaving the aircraft after engine shutdown.
- b) The total time from the first take-off until the last landing in conjunction with one or more consecutive flights.
- c) The period from the start of the take-off run to the final touchdown when landing.
- d) The total time from the first aircraft movement until the moment it finally comes to rest at the end of the flight.

34. Which statement about useful load is correct?

- a) It is the difference between maximum allowable mass and basic empty mass.
- b) It is the mass of unusable fuel only.
- c) It is the same as centre of gravity arm.
- d) It is always zero in helicopters.

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35. What kind of reduction in visibility is not very sensitive to changes in temperature?

- a) Patches of fog (BCFG)
- b) Mist (BR)
- c) Radiation fog (FG)
- d) Haze (HZ)

36. A Pre-Flight Information Bulletin (PIB) is a presentation of current...

- a) ICAO information of operational significance prepared after the flight.
- b) NOTAM information of operational significance prepared prior to flight.
- c) AIC information of operational significance prepared after the flight.
- d) AIP information of operational significance prepared prior to flight.

37. Which statement about checklist use is correct?

- a) It should be avoided in abnormal situations.
- b) It reduces the risk of omitted actions.
- c) It replaces aircraft control.
- d) It is only for student pilots.

38. Which statement about a danger area is correct?

- a) It gives permanent priority to VFR traffic.
- b) It warns pilots that activities dangerous to flight may take place.
- c) It is the same as a prohibited area.
- d) It always requires a transponder code 7700.

39. The planned distance is 84 NM and groundspeed is 84 kt. What is the approximate flight time?

- a) 52 minutes
- b) 70 minutes
- c) 78 minutes
- d) 60 minutes



40. What is the task of cooling fins on air-cooled engine cylinders?

- a) Quick heat transfer to the surrounding air flow by expanding the surface
- b) Leading the airflow to parts designated to be cooled
- c) Cooling of the cylinder surrounding airflow and forwarding to hotter engine parts
- d) Increasing the airflow thus improving cooling of cylinder parts

41. What should a PPL(H) pilot do when planning to cross a TMZ?

- a) Assume it is inactive unless ATC calls first.
- b) operate the required transponder mode and code.
- c) Switch off the transponder to reduce workload.
- d) Ignore it when flying VFR below 1,000 ft AGL.

42. What is the percentage of oxygen in the atmosphere at 6000 ft?

- a) 18.9 %
- b) 12 %
- c) 78 %
- d) 21 %

43. What is the minimum flight visibility in airspace "C" at and above FL 100 for an aircraft operating under VFR?

- a) 1.5 km
- b) 10 km
- c) 8 km
- d) 5 km

44. How can a wind direction indicator be marked for better visibility?

- a) The wind direction indicator could be surrounded by a white circle.
- b) The wind direction indicator could be made from green materials.
- c) The wind direction indicator may be mounted on top of the control tower.
- d) The wind direction indicator could be located on a big black surface.

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45. The planned distance is 45 NM and groundspeed is 90 kt. What is the approximate flight time?

- a) 22 minutes
- b) 40 minutes
- c) 30 minutes
- d) 48 minutes

46. What condition may prevent the formation of "radiation fog"?

- a) Overcast cloud cover
- b) Low spread
- c) Calm wind
- d) Clear night, no clouds

47. What is the meaning of the 1:60 rule?

- a) 60 NM lateral offset at 1° drift after 1 NM
- b) 10 NM lateral offset at 1° drift after 60 NM
- c) 6 NM lateral offset at 1° drift after 10 NM
- d) 1 NM lateral offset at 1° drift after 60 NM

48. What is the reason for retreating blade stall?

- a) Large centrifugal forces of the peripheral speed
- b) Small cone angle and constant peripheral speed
- c) Large pitch angle and small effective airflow
- d) Small pitch angle and large effective airflow

49. Which human-factor point is most relevant? A pilot feels tingling in the fingers and dizziness after rapid breathing during a stressful event.

- a) Hyperventilation should be considered.
- b) The event has no operational relevance.
- c) The correct response is to increase workload.
- d) The pilot should ignore symptoms until after landing.

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50. Which statement about fuel smell in flight is correct?

- a) It should be treated as a possible abnormal or emergency situation.
- b) It is normal after every take-off.
- c) It is corrected by leaning the mixture only.
- d) It means the altimeter is set incorrectly.

51. Which abbreviation is used for the term "abeam"?

- a) ABM
- b) ABE
- c) ABA
- d) ABB

52. What type of fog emerges if humid and almost saturated air, is forced to rise upslope of hills or shallow mountains by the prevailing wind?

- a) Steaming fog
- b) Orographic fog
- c) Radiation fog
- d) Advection fog

53. What should a PPL(H) pilot do before entering a prohibited area?

- a) remain clear unless specific authorisation is held.
- b) Assume it is inactive unless ATC calls first.
- c) Switch off the transponder to reduce workload.
- d) Ignore it when flying VFR below 1,000 ft AGL.

54. The correlator (for pitch compensation)...

- a) Overlays periodic and collective control inputs from the pilot.
- b) Opens the throttle when the collective is raised.
- c) Increases rotor RPM when the carburettor heat is turned on.
- d) Disables the engine via a spring-loaded resistance.

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55. Which of the following options does NOT stimulate motion sickness (disorientation)?

- a) Non-accelerated straight and level flight
- b) Turbulence in level flight
- c) Head movements during turns
- d) Flying under the influence of alcohol

56. What does a readability of 2 indicate?

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

57. Winds blowing downhill are defined as...

- a) Subsident winds.
- b) Anabatic winds.
- c) Convergent winds.
- d) Katabatic winds.

58. What is the function of the red blood cells (erythrocytes)?

- a) Blood sugar regulation
- b) Oxygen transport
- c) Immune defense
- d) Blood coagulation

59. The measurement of altitude is based on the change of the...

- a) Static pressure.
- b) Dynamic pressure.
- c) Total pressure.
- d) Differential pressure.

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60. Which altitude marks the lower limit where the body is unable to completely compensate the effects of the low atmospheric pressure?

- a) 12000 feet
- b) 7000 feet
- c) 5000 feet
- d) 22000 feet

61. Which action best supports safe management of freezing level?

- a) Delay the decision until after take-off.
- b) Use the item only if requested by passengers.
- c) Compare planned altitude with freezing level and cloud.
- d) Ignore it when the helicopter has sufficient fuel.

62. Which type of airspace may be crossed subject to certain restrictions?

- a) Danger area
- b) Restricted area
- c) No-fly zone
- d) Prohibited area

63. What does a cloud coverage of "FEW" mean in a METAR weather report?

- a) 8 eighths
- b) 1 to 2 eighths
- c) 3 to 4 eighths
- d) 5 to 7 eighths

64. Which of the instruments listed below obtain their readings through pressure measurement?

- a) Oil pressure gauge, fuel pressure gauge, manifold pressure gauge, altimeter, vertical speed indicator, airspeed indicator, suction gauge
- b) Oil pressure gauge, fuel pressure gauge, fuel quantity gauge, manifold pressure gauge, differential pressure gauge, altimeter
- c) Airspeed indicator, vertical speed indicator, altimeter, directional gyro, turn and bank coordinator, oil pressure gauge, fuel pressure gauge
- d) Airspeed indicator, vertical speed indicator, altimeter, magnetic compass, oil pressure gauge, fuel pressure gauge

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65. Which movement is caused by the Coriolis effect on the advancing rotor blade?

- a) Mass movement outwards
- b) Drag movement forwards
- c) Tilt movement backwards
- d) Flapping downwards

66. Which statement about cyclic pitch is correct?

- a) It changes all blade pitch equally.
- b) It controls fuel flow only.
- c) It tilts the rotor disc to control movement around pitch and roll axes.
- d) It is used only after shutdown.

67. What is the meaning of a flashing red light to an aircraft in flight?

- a) Cleared for take-off.
- b) Aerodrome unsafe, do not land.
- c) Make a right-hand circuit.
- d) Squawk 7600 immediately.

68. Which action best supports safe management of transverse flow effect?

- a) Anticipate it during transition from hover.
- b) Delay the decision until after take-off.
- c) Use the item only if requested by passengers.
- d) Ignore it when the helicopter has sufficient fuel.

69. Which phrase is used by a pilot when he wants to fly through controlled airspace?

- a) Would like
- b) Want
- c) Request
- d) Apply

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70. According to the aeronautical chart, Friesach/Hirt (LOKH) has a 707 m grass runway. The preferred runway is 17 due to a surface wind of 180°/10 kt. The required landing distance for your aircraft under the present conditions is 550 m. Considering the NOTAM below, is it safe to plan LOKH as an alternate aerodrome? Use figure (PFP-026)

B1066/11 NOTAMR B0680/11

Q)
LOVV/QMRCM/IV/NBO/A/000/999/4656N01426E005
E) THRESHHOLD RWY17 DISPLACED 207M INWARDS
DUE TO HIGH TREES 300M N OF RWY 17.
LANDING DISTANCE AVAILABLE (LDA) 500M.
TAKE-OFF RUN AVAILABLE (TORA) RWY 17/35
AND LANDING DISTANCE AVAILABLE (LDA)
RWY 35 707M.
MARKINGS ARE INSTALLED AT BOTH EDGES OF THE
RUNWAY ACCORDING ZFV.

- a) No, because the applicable NOTAM restriction leaves insufficient landing distance.
- b) Yes, because the published runway length alone is greater than the required landing distance.
- c) Yes, because NOTAM restrictions do not have to be considered for alternate planning.
- d) No, because grass runways may never be used as alternate aerodromes.

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Response Scheme

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

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

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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: _____		