

# Exam simulation

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



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STUDENT NAME:

DATE AND TIME:

**01. Given: True course: 270°. TAS: 100 kt. Wind: 090°/25 kt. Distance: 100 NM. The ground speed (GS) equals...**

- a) 125 kt.
- b) 117 kt.
- c) 120 kt
- d) 131 kt

**02. Mountain side updrafts can be intensified by ...**

- a) Solar irradiation on the windward side
- b) Solar irradiation on the lee side
- c) By warming of upper atmospheric layers
- d) Thermal radiation of the windward side during the night

**03. How does the pilot prepare for a VFR flight over a large distance of water, when it is unlikely that land can be reached in case of an engine failure?**

- a) File a flight plan including the exact way-points
- b) Be prepared to fly with transponder only
- c) Carry life vests or a life raft for all occupants.
- d) Maintain continuous radio contact with ATC.

**04. Which processes result in decreasing air density?**

- a) Decreasing temperature, increasing pressure
- b) Increasing temperature, decreasing pressure
- c) Increasing temperature, increasing pressure
- d) Decreasing temperature, decreasing pressure

**05. The result of a rear C.G. position is...**

- a) An increased fuel consumption.
- b) A decrease of range.
- c) A decrease of stability.
- d) An increased stall speed.

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**06. What is the correct way of establishing radio communication between D-EAZF and Dusseldorf Tower?**

- a) Dusseldorf Tower over
- b) D-EAZF is calling Dusseldorf Tower
- c) Dusseldorf Tower D-EAZF
- d) Tower from D-EAZF

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**07. What is the purpose of the semi-circular rule?**

- a) To avoid collisions by reducing the probability of opposing traffic at the same altitude
- b) To fly without a filed flight plan in prescribed zones published in the AIP
- c) To allow safe climbing or descending in a holding pattern
- d) To avoid collisions by suspending turning manoeuvres

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**08. The pilot receives a QDR of 225° from the VDF ground station. Where is the aircraft located in relation to the ground station?**

- a) Southeast
- b) Northeast
- c) Southwest
- d) Northwest

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**09. What is the minimum age to start a private pilot training at a flight school?**

- a) 16 years
- b) 17 years
- c) 21 years
- d) 18 years

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

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

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**11. The trim wheel or lever in the cockpit is moved aft by the pilot. What effect does this action have on the trim tab and on the elevator?**

- a) The trim tab moves up, the elevator moves up
- b) The trim tab moves up, the elevator moves down
- c) The trim tab moves down, the elevator moves up
- d) The trim tab moves down, the elevator moves down

**12. Which gas is most dangerous during an engine fire?**

- a) Carbon monoxide
- b) Nitrogen
- c) Oxygen
- d) Carbon dioxide

**13. What is the minimum flight visibility in airspace "E" for an aircraft operating under VFR at FL75?**

- a) 8000 m
- b) 1500 m
- c) 3000 m
- d) 5000 m

**14. What is indicated by a pattern of longitudinal stripes of uniform dimensions disposed symmetrically about the centerline of a runway?**

- a) At this point the glide path of an ILS hits the runway
- b) Do not touch down before them
- c) Do not touch down behind them
- d) A ground roll could be started from this position

**15. Where is interference drag generated?**

- a) At the wing root
- b) At the ailerons
- c) At the the gear
- d) Near the wing tips

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## 16. Regularity messages are messages...

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

## 17. The barometric altimeter with QFE setting indicates...

- a) Height above the pressure level at airfield elevation.
- b) True altitude above MSL.
- c) Height above MSL.
- d) Height above standard pressure 1013.25 hPa

## 18. 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) 1129 UTC.
- b) 1029 UTC.
- c) 1146 UTC
- d) 1045 UTC.

## 19. When should turns at low altitudes above villages be avoided with regard to noise abatement procedures?

- a) In descent
- b) In climb
- c) During the approach
- d) In horizontal flight

## 20. Distress messages contain...

- a) Information concerning urgent spare parts which are required for a continuation of flight and which have to be ordered in advance.
- b) Information concerning the apron personell and which imply an imminent danger to landing aircraft.
- c) Information concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight
- d) Information concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.

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**21. Air descending behind a mountain range is defined as...**

- a) Katabatic wind
- b) Convergent wind.
- c) Anabatic wind.
- d) Divergent wind.

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**22. Given: QDR: 152° VAR: 5° W DEV: 5° E The QUJ equals...**

- a) 332°
- b) 147°
- c) 327°
- d) 317°.

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**23. Which abbreviation is used for the term "abeam"?**

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

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**24. What does the abbreviation "FIS" stand for?**

- a) Flashing information service
- b) Flight information system
- c) Flashing information system
- d) Flight information service

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**25. What is the purpose of winglets?**

- a) Increase gliding performance at high speed.
- b) Increase of lift and turning manoeuvering capabilities
- c) To increase efficiency of aspect ratio
- d) Reduction of induced drag

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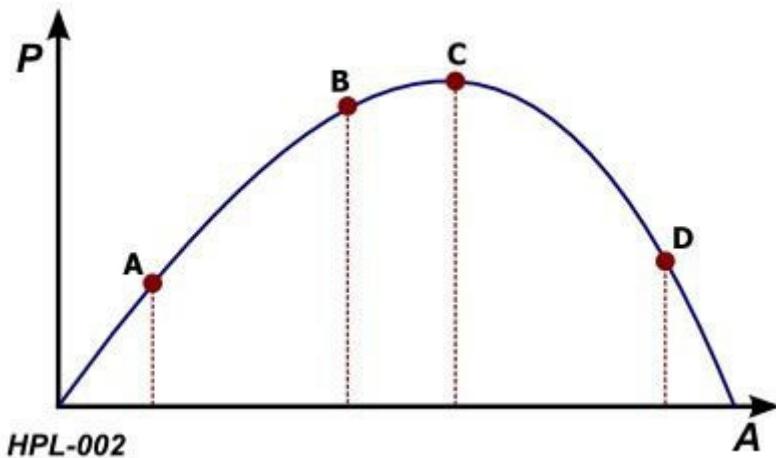


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## 26. Which of the following are an aircraft's secondary flight controls?

- a) Elevator, rudder, aileron
- b) All movable parts on the aircraft which aid in controlling the aircraft
- c) Elevator, rudder, aileron, trim tabs, high-lift wing devices, power controls
- d) Wing flaps, leading edge devices, spoilers or speedbrakes, trim systems

## 27. Which answer is correct concerning stress?



- a) Stress can occur if there seems to be no solution for a given problem
- b) Training and experience have no influence on the occurrence of stress
- c) Stress and its different symptoms are irrelevant for flight safety
- d) Everybody reacts to stress in the same manner

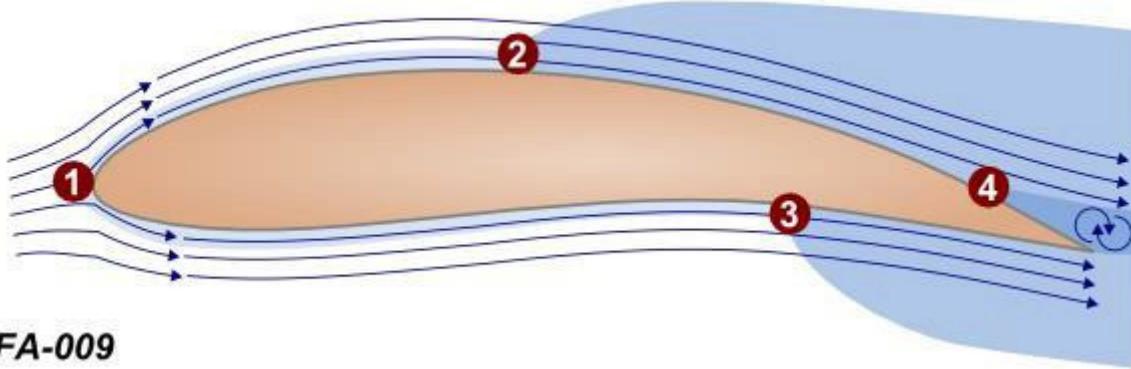
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**28. Which point on the aerofoil is represented by number 4? See figure (PFA-009) (1,00 P.) Siehe Anlage 2**



**PFA-009**

- a) Center of pressure
- b) Separation point
- c) Transition point
- d) Stagnation point

**29. The pressure compensation between wind upper and lower surface results in ...**

- a) Laminar airflow by wing tip vortices.
- b) Profile drag by wing tip vortices.
- c) Induced drag by wing tip vortices.
- d) Lift by wing tip vortices

**30. How should a power decrease be executed on a constant-speed propeller, provided that no other procedure is described in the flight manual?**

- a) 1) Decrease RPM 2) Decrease manifold pressure
- b) 1) Decrease manifold pressure 2) Increase RPM
- c) 1) Decrease RPM 2) Increase manifold pressure
- d) 1) Decrease manifold pressure 2) Decrease RPM

**31. How can a wind shear encounter in flight be avoided?**

- a) Avoid take-off and landing during the passage of heavy showers or thunderstorms
- b) Avoid areas of precipitation, particularly during winter, and choose low flight altitudes
- c) Avoid take-offs and landings in mountainous terrain and stay in flat country whenever possible
- d) Avoid thermally active areas, particularly during summer, or stay below these areas

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## 32. What behaviour is shown by a rotating gyro in space?

- a) It moves in accordance with the body surrounding it
- b) It tends to maintain its position in space
- c) It swings from east to west like a pendulum
- d) It moves in circles with a steadily decreasing radius

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## 33. After take-off an aeroplane gets into a wind shear with decreasing headwind. As a result...

- a) The aeroplane flies above the estimated climb path
- b) The true airspeed (TAS) will increase
- c) The ground speed (GS) will decrease
- d) The aeroplane flies below the estimated climb path.

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## 34. What is referred to as mountain wind?

- a) Wind blowing uphill from the valley during daytime
- b) Wind blowing uphill from the valley during the night
- c) Wind blowing down the mountain side during the night
- d) Wind blowing down the mountain side during daytime.

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## 35. What is the meaning of "DETRESFA"?

- a) Uncertainty phase
- b) Uncertainty phase
- c) Distress phase
- d) Alerting phase

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## 36. Extensive high pressure areas can be found throughout the year ...

- a) In areas showing extensive lifting processes
- b) In mid latitudes along the polar front
- c) Over oceanic areas at latitudes around 30°N/S.
- d) In tropical areas, close to the equator

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## 37. Given the following conditions, the TAS equals... Outside air temperature: 10° C Pressure altitude: 6000 ft Power: 65

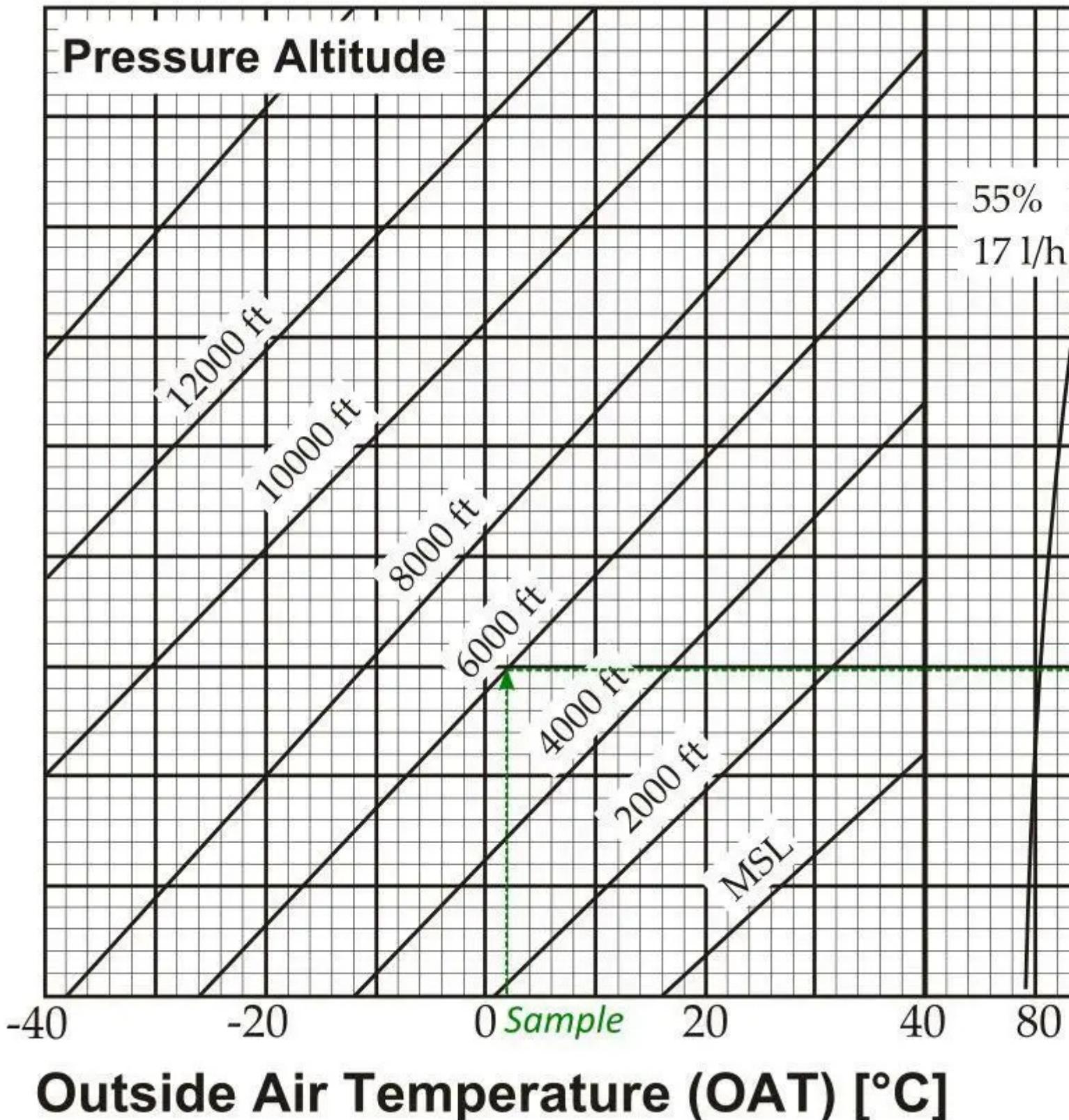
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**PFP-014**



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- a) 96 kt.
- b) 92 kt
- c) 88 kt.
- d) 100 kt.

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**38. Given the following information, what is the true altitude? (rounded to the nearest 50 ft) QNH: 983 hPa Altitude: FL 85 Outside Air Temperature: ISA - 10°**

- a) 7900 ft
- b) 9400 ft
- c) 7300 ft
- d) 7600 ft

**39. How are the flight controls on a small single-engine piston aircraft normally controlled and actuated?**

- a) Power-assisted through hydraulic pumps or electric motors
- b) Hydraulically through hydraulic pumps and actuators
- c) Manually through rods and control cables
- d) Electrically through fly-by-wire

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40. What is the nature of the flight shown in the given ATC flight plan? See annex (PFP-051a) (1,00 P.) Siehe Anlage 19

|   |   |                                   |                               |
|---|---|-----------------------------------|-------------------------------|
| PFP-051                                 |   |                                   |                               |
| 3 MESSAGE TYPE<br><b>&lt;=(FPL</b>      | 7 AIRCRAFT IDENTIFICATION<br><b>OEABC</b> | 8 FLIGHT RULES<br><b>V</b>        | TYPE OF FLIGHT<br><b>G</b>    |
| 9 NUMBER<br><b>      </b>               | TYPE OF AIRCRAFT<br><b>DV20</b>           | WAKE TURBULENCE CAT.<br><b>/L</b> | 10 EQUIPMENT<br><b>ORV /C</b> |
| 13 DEPARTURE AERODROME<br><b>LOWK</b>   | TIME<br><b>2000</b>                       | <=                                |                               |
| 15 CRUISING SPEED<br><b>N0100</b>       | LEVEL<br><b>F095</b>                      | ROUTE<br><b>KFT GRZ PUBEG SNU</b> |                               |
| TOTAL EET                               |   |                                   |                               |
| 16 DESTINATION AERODROME<br><b>LOWW</b> | HR<br><b>0215</b>                         | MIN                               | ALTN AERODROME<br><b>LOAN</b> |
| 18 OTHER INFORMATION<br><b>      </b>   | 2ND ALTN AERODROME<br><b>      </b>       |                                   |                               |

- a) Night flight under visual flight rules.
- b) Flight under instrument flight rules.
- c) Traffic pattern under visual flight rules.
- d) Border crossing flight.

41. 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

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## 42. 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

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## 43. Which air traffic services can be expected within an FIR (flight information region)?

- a) ATC (air traffic control) FIS (flight information service)
- b) FIS (flight information service) ALR (alerting service)
- c) AIS (aeronautical information service) SAR (search and rescue)
- d) ATC (air traffic control) AIS (aeronautical information service)

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## 44. Loads must be adequately secured in order to...

- a) Carry extra fuel
- b) Allow steep turns
- c) Avoid any centre of gravity (C.G.) movements
- d) Prevent excessive 'g'-loading during the landing flare

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## 45. In what different ways can a risk be handled appropriately?

- a) Extrude, avoid, palliate, transfer
- b) Ignore, accept, transfer, extrude
- c) Avoid, reduce, transfer, accept
- d) Avoid, ignore, palliate, reduce

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## 46. Visual illusions are mostly caused by...

- a) Rapid eye movements.
- b) Misinterpretation of the brain.
- c) Colour blindness.
- d) Binocular vision.

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**47. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 030° to a heading of 180°. At approximately which indicated magnetic heading should the turn be terminated?**

- a) 360°
- b) 150°.
- c) 210°.
- d) 180°.

**48. Which option states a benefit of wing washout?**

- a) Structurally the wing is made more rigid against rotation
- b) With the washout the form drag reduces at high speeds
- c) Greater hardness because the wing can withstand more torsion forces
- d) At high angles of attack the effectiveness of the aileron is retained as long as possible

**49. What is the correct way of using the aircraft call sign at first contact?**

- a) Using the first two characters only
- b) Using the last two characters only
- c) Using the first three characters only
- d) Using all characters

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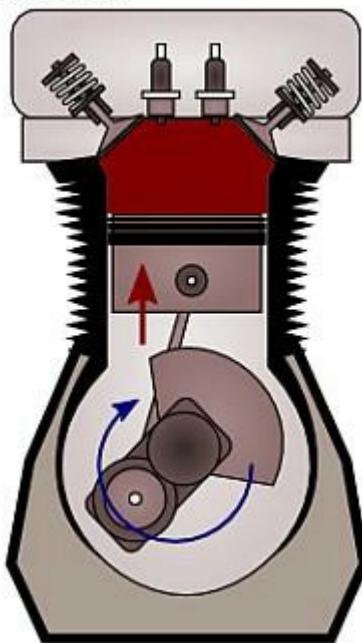
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**50. Which part of the cycle of a four-stroke Otto engine can be seen in the attachment? See figure (AGK-008) (1,00 P.) Siehe Anlage 6**

**AGK-008**



- a) Second stroke - compression
- b) Third stroke - power
- c) Fourth stroke - exhaust
- d) First stroke - induction

**51. Which of the following symptoms may indicate hypoxia?**

- a) Joint pain in knees and feet
- b) Muscle cramps in the upper body area
- c) Blue discolouration of lips and fingernails
- d) Blue marks all over the body

**52. In which way does the position of the center of pressure move at a positively shaped profile with increasing angle of attack?**

- a) It moves backward until reaching the critical angle of attack
- b) It moves forward first, then backward
- c) It moves forward until reaching the critical angle of attack
- d) It moves to the wing tips

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## 53. What is the unit for voltage?

- a) Ampere
- b) Watt
- c) Ohm
- d) Volt

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## 54. Cylinder head temperature indication relates to...

- a) All Cylinders.
- b) A random cylinder
- c) The critical cylinder
- d) The average of all cylinders.

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## 55. During a straight and steady climb, which force acts additionally, and in the same direction as the drag force, resulting in more power required for climb than for horizontal flight?

- a) A component of the weight force along the rearward flight path
- b) The vertical component of the weight force
- c) A component of the thrust along the rearward flightpath.
- d) A component of the lift force along the forward flightpath.

---

## 56. Above the friction layer, with a prevailing pressure gradient, the wind direction is...

- a) Perpendicular to the isohypes
- b) At an angle of 30° to the isobars towards low pressure.
- c) Parallel to the isobars.
- d) Perpendicular to the isobars.

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## 57. Which statement regarding the "constant-speed propeller" is correct?

- a) The propeller keeps the airspeed constant
- b) The pitch of the propeller rises with higher speeds
- c) The RPM decreases with lower speeds
- d) The set RPM is kept constant by the motor power (MAP)

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**58. What is the correct phrase to begin a blind transmission?**

- a) Blind
- b) Transmitting blind
- c) No reception
- d) Listen

---

**59. Two engine-driven aircraft are flying on crossing courses at the same altitude. Which one has to divert?**

- a) The lighter one has to climb
- b) Both have to divert to the right
- c) The heavier one has to climb
- d) Both have to divert to the left

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**60. A landing conducted in response to circumstances forcing the aircraft to land is a / an...**

- a) Precautionary landing.
- b) Urgent landing.
- c) Emergency landing
- d) Field or out landing

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

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

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**62. A risk factor for decompression sickness is...**

- a) Smoking
- b) Sports
- c) Scuba diving prior to flight.
- d) 100 % oxygen after decompression.

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## 63. What is the correct way to transmit the call sign OE-JVK?

- a) Omega Echo Jankee Victor Kilo
- b) Oscar Echo Jankee Victor Kilogramm
- c) Oscar Echo Juliett Victor Kilo
- d) Oscar Echo Juliett Victor Kias

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## 64. An aircraft travels 110 NM within 01:25. The ground speed (GS) equals...

- a) 120 km/h.
- b) 160 km/h
- c) 86 kt.
- d) 78 kt.

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## 65. The stall warning will be activated just before reaching which speed?

- a) VNE
- b) VS
- c) VX
- d) VR

---

## 66. The speed Vx means...

- a) That a given altitude is reached within minimum distance
- b) That a given altitude is reached within minimum flight time
- c) Maximum altitude gain per 10 % power
- d) That a given altitude is reached with minimum fuel consumption

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## 67. What is the minimum age to obtain a private pilot license?

- a) 17 years
- b) 21 years
- c) 16 years
- d) 18 years

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**68. How does air temperatur change in ISA from MSL to approx. 10.000 m height?**

- a) From +20° to -40°C
- b) From +30° to -40°C
- c) From -15° to 50°C
- d) From +15° to -50°C

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**69. Where is the brake system installed to slow the aircraft on ground?**

- a) On the tail wheel
- b) On the nose and main gear
- c) Only on the nose gear
- d) Only on the main gear

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**70. What clouds and weather may result from an humid and instable air mass, that is pushed against a chain of mountains by the predominant wind and forced to rise?**

- a) Embedded CB with thunderstorms and showers of hail and/or rain.
- b) Thin Altostratus and Cirrostratus clouds with light and steady precipitation.
- c) Overcast low stratus (high fog) with no precipitation.
- d) Smooth, unstructured NS cloud with light drizzle or snow (during winter)

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## Response Scheme

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

01: A

02: A

03: C

04: B

05: C

06: C

07: A

08: C

09: A

10: B

11: C

12: A

13: D

14: B

15: A

16: D

17: A

18: B

19: B

20: D

21: A

22: C

23: A

24: D

25: D

26: D

27: A

28: B

29: C

30: D

31: A

32: B

33: D

34: C

35: C

36: C

37: B

38: C

39: C

40: A

41: B

42: D

43: B

44: C

45: C

46: B

47: C

48: D

49: D

50: A

51: C

52: C

53: D

54: C

55: A

56: C

57: B

58: B

59: B

60: C

61: A

62: C

63: C

64: D

65: B

66: A

67: A

68: D

69: D

70: A

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## Response form

Use this form to mark your answers

01: \_\_\_\_\_

02: \_\_\_\_\_

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