

Exam simulation

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STUDENT NAME:

DATE AND TIME:

01. Which are the properties of a Lambert conformal chart?

- a) Great circles are depicted as straight lines and the chart is an equal-area projection
- b) The chart is conformal and an equal-area projection
- c) The chart is conformal and nearly true to scale
- d) Rhumb lines are depicted as straight lines and the chart is conformal

02. In case of a stall it is important to...

- a) Increase the bank angle and reduce the speed
- b) Increase the angle of attack and increase the speed.
- c) Decrease the angle of attack and increase the speed
- d) Increase the angle of attack and reduce the speed.

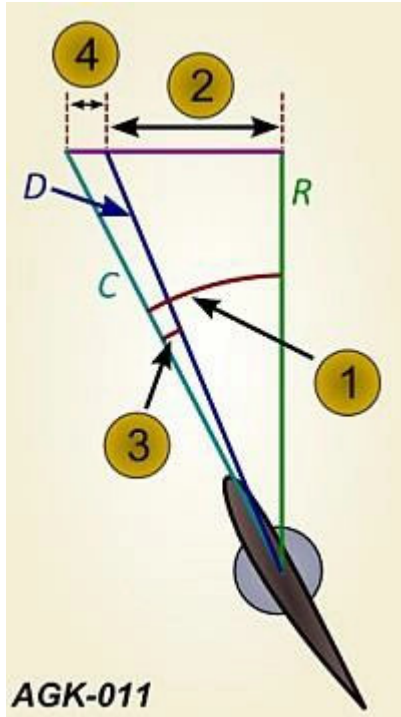
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03. The angle indicated by arrow number 1 shows the propeller's... See figure (AGK-011) D: Direction of air flow C: Chord line R: Direction of rotation



- a) Angle of incidence
- b) Angle of attack
- c) Geometric wing twist
- d) Aerodynamic wing twist

04. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are the TH and the DEV?

- a) TH: 172°. DEV: +002°.
- b) TH: 172°. DEV: -002°.
- c) TH: 194°. DEV: -002°.
- d) TH: 194°. DEV: +002°.

05. The height of the tropopause of the International Standard Atmosphere (ISA) is at...

- a) 5500 ft.
- b) 11000 ft.
- c) 36000 ft.
- d) 48000 ft.

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06. An aircraft is flying at a pressure altitude of 7000 feet with an outside air temperature (OAT) of +21°C. The QNH altitude is 6500 ft. The true altitude equals...

- a) 6750 ft.
- b) 6250 ft.
- c) 7000 ft.
- d) 6500 ft.

07. Given: QTE: 248° VAR: 10° W The QDR equals...

- a) 068°
- b) 238°
- c) 258°
- d) 078°

08. A technical fault requires an emergency off-field landing. Which steps, with respect to the pilot's operating handbook, are necessary?

- a) Inform air traffic control and request technical support, check the pilot's operating handbook for a reference on the matter and execute an emergency landing.
- b) Reduce speed and configure the aircraft for landing in an attempt to gain time, declare an emergency, complete the applicable emergency procedure and execute an emergency landing.
- c) Locate a suitable landing area, plan the approach, complete the applicable emergency procedure, declare an emergency, start and concentrate on the approach in due time.
- d) Declare an emergency, complete the applicable emergency procedure, cover as much distance towards the airport as possible to be closer to the rescue forces.

09. A pilot can contact FIS (flight information service)...

- a) Via telephone.
- b) Via internet.
- c) By a personal visit.
- d) Via radio communication.

10. Wings level after a longer period of turning can lead to the impression of...

- a) Starting a descent.
- b) Starting a climb.
- c) Steady turning in the same direction as before.
- d) Turning into the opposite direction.

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11. The term "steady flight" is defined as...

- a) Flight with a steady power setting without changing course.
- b) Climb or descent with a constant climb or descent rate in calm weather conditions.
- c) Unaccelerated flight. The four forces thrust, drag, lift, and weight are in equilibrium.
- d) Flight in smooth air without turbulence and a perfectly trimmed aircraft.

12. What information is provided in the part "AD" of the AIP?

- a) Warnings for aviation, ATS airspaces and routes, restricted and dangerous airspaces
- b) Table of content, classification of airfields with corresponding maps, approach charts, taxi charts
- c) Map icons, list of radio nav aids, time for sunrise and sunset, airport fees, air traffic control fees
- d) Access restrictions for airfields, passenger controls, requirements for pilots, license samples and validity periods

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



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

14. What are the air masses that Central Europe is mainly influenced by?

- a) Arctic and polar cold air
- b) Polar cold air and tropical warm air
- c) Equatorial and tropical warm air
- d) Tropical and arctic cold air

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15. In motorplanes the stall warning is usually activated by a change of...

- a) The center of gravity.
- b) The transition point.
- c) The center of pressure.
- d) The stagnation point.

16. A movement around the longitudinal axis is primarily initiated by the...

- a) Rudder
- b) Ailerons
- c) Elevator
- d) Trim tab

17. Which danger exists after a heavy rain shower for a landing aircraft?

- a) Displacement of the tire slip marking
- b) Difficult flare due to glare
- c) Longer braking distance due to aquaplaning
- d) Decreased braking distance due to aquaplaning

18. The rotational axis of the Earth runs through the...

- a) Geographic north pole and on the geographic south pole.
- b) Geographic north pole and on the magnetic south pole.
- c) Magnetic north pole and on the magnetic south pole.
- d) Magnetic north pole and on the geographic south pole

19. Which transponder code should be set during a radio failure without any request?

- a) 7600
- b) 7700
- c) 7000
- d) 7500

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20. What does the abbreviation "QUJ" stand for?

- a) True bearing from the station
- b) True bearing to the station
- c) Magnetic bearing to the station
- d) Magnetic bearing from the station

21. The altimeter is switched from local QNH to 1013.25 hPa...

- a) At the decision height.
- b) At 4000 ft
- c) When climbing above the transition altitude.
- d) When descending below FL 100

22. What is the meaning of the abbreviation "IFR"?

- a) Instrument Flight Rules
- b) Instrument Meteorological Conditions
- c) Bad Weather Flight Rules
- d) Commercial Flight Rules

23. Wake turbulence is caused by...

- a) Wind shear at the wingtip of an aerofoil.
- b) Jet blast behind a turbine engine.
- c) Turbulence at the downwind side of a mountain range.
- d) Pressure compensation at the wingtip of an aerofoil.

24. Which maximum rate of climb can the aircraft reach at 9000 ft pressure altitude and OAT 12° C? See annex (PFP-011)

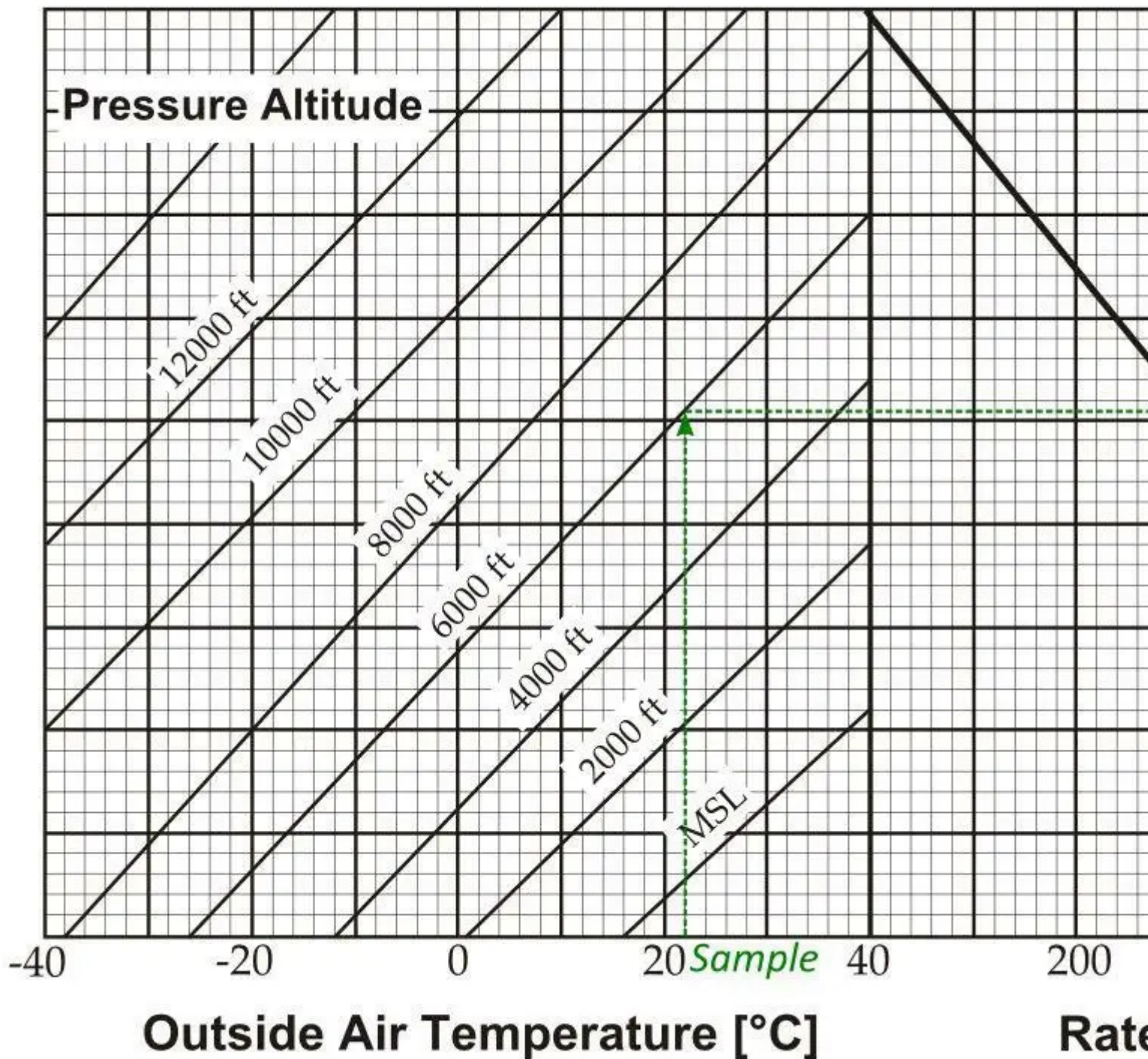
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PFP-011



- a) 200 ft/min
- b) 250 ft/min
- c) 350 ft/min
- d) 300 ft/min

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25. 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

26. What weather conditions can be expected in high pressure areas during summer?

- a) Changing weather with passing of frontal lines
- b) Squall lines and thunderstorms
- c) Calm winds and widespread areas with high fog
- d) Calm weather and cloud dissipation, few high Cu

27. 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

28. What impression may be caused when approaching a runway with an upslope?

- a) A landing beside the centerline
- b) A hard landing
- c) An undershoot
- d) An overshoot

29. Which transponder code indicates a radio failure?

- a) 7700
- b) 7600
- c) 7500
- d) 7000

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30. What are the primary and the secondary effects of a rudder input to the left?

- a) Primary: yaw to the left Secondary: roll to the right
- b) Primary: yaw to the left Secondary: roll to the left
- c) Primary: yaw to the right Secondary: roll to the left
- d) Primary: yaw to the right Secondary: roll to the right

31. Wake turbulence is particularly strong...

- a) At a high aeroplane weight.
- b) When flying with high thrust.
- c) When flying with low thrust.
- d) At a low aeroplane weight.

32. What is the best combination of traits with respect to the individual attitude and behaviour for a pilot?

- a) Introverted - unstable
- b) Introverted - stable
- c) Extroverted - unstable
- d) Extroverted - stable

33. The minimum flight visibility at 5000 ft MSL in airspace B for VFR flights is...

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

34. 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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35. In what situation is it appropriate to set the transponder code 7600?

- a) Hijacking
- b) Emergency
- c) Flight into clouds
- d) Loss of radio

36. Visual illusions are mostly caused by...

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

37. What can be expected for the prevailing wind with isobars on a surface weather chart showing large distances?

- a) Strong pressure gradients resulting in strong prevailing wind
- b) Strong pressure gradients resulting in low prevailing wind
- c) Low pressure gradients resulting in strong prevailing wind
- d) Low pressure gradients resulting in low prevailing wind

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

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

39. Two aeroplanes are flying on crossing tracks. Which one has to divert?

- a) The aircraft which flies from left to right has the right of priority
- b) Both have to divert to the right
- c) The aircraft which flies from right to left has the right of priority
- d) Both have to divert to the left

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40. What describes "wing loading"?

- a) Drag per wing area
- b) Drag per weight
- c) Wing area per weight
- d) Weight per wing area

41. Which area is suitable for an off-field landing?

- a) Harvested cornfield
- b) Glade with long dry grass
- c) Plowed field
- d) Sports area in a village

42. What does the abbreviation "HX" stand for?

- a) No specific opening hours
- b) Sunrise to sunset
- c) Sunset to sunrise
- d) 24 h service

43. What is an indication for a macho attitude?

- a) Careful walkaround procedure
- b) Comprehensive risk assessment when faced with unfamiliar situations
- c) Risky flight maneuvers to impress spectators on ground
- d) Quick resignation in complex and critical situations

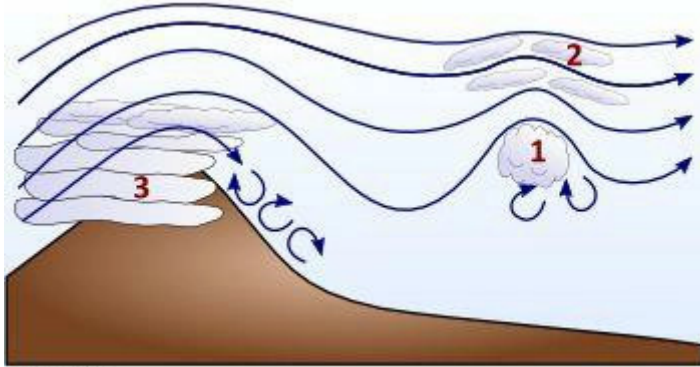
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44. What weather phenomenon designated by "2" has to be expected on the lee side during "Foehn" conditions?
See figure (MET-001).



MET-001

- a) Altocumulus Castellanus
- b) Nimbostratus
- c) Cumulonimbus
- d) Altocumulus lenticularis

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

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

46. What is the ISA standard pressure at FL 180 (5500 m)?

- a) 250 hPa
- b) 300 hPa
- c) 1013.25 hPa
- d) 500 hPa

47. How often shall a blind transmission be made?

- a) Two times
- b) Three times
- c) Four times
- d) One time

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48. In which way may an altimeter subscale which is set to an incorrect QNH lead to an incorrect altimeter reading?

- a) If the subscale is set to a lower than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- b) If the subscale is set to a higher than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- c) If the subscale is set to a lower than actual pressure, the indication is too low. This may lead to much closer proximity to the ground than intended
- d) If the subscale is set to a higher than actual pressure, the indication is too low. This may lead to much greater heights above the ground than intended

49. The term "maximum elevation figure" (MEF) is defined as...

- a) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude.
- b) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude plus a safety margin, rounded to the next higher 100 ft.
- c) The highest elevation within an area covering 30 minutes of latitude and 30 minutes of longitude plus a safety margin of 1000 ft (305 m), rounded to the next higher 100 ft.
- d) The highest elevation within an area covering 1 degree of latitude and 1 degree of longitude plus a safety margin, rounded to the next lower 100 ft.

50. What change of wind direction can be expected during the passage of a polar front low in Central Europe?

- a) Backing wind during passage of the warm front, veering wind during passage of the cold front
- b) Backing wind during passage of the warm front, backing wind during passage of the cold front
- c) Veering wind during passage of the warm front, veering wind during passage of the cold front
- d) Veering wind during passage of the warm front, backing wind during passage of the cold front

51. What is the call sign of the aerodrome control?

- a) Tower
- b) Airfield
- c) Ground
- d) Control

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52. Which are the official basic units for horizontal distances used in aeronautical navigation and their abbreviations?

- a) Feet (ft), inches (in)
- b) Nautical miles (NM), kilometers (km)
- c) Yards (yd), meters (m)
- d) Land miles (SM), sea miles (NM)

53. The barometric altimeter with QNH setting indicates...

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

54. 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) 5 km
- c) 10 km
- d) 8 km

55. What has to be considered during refueling?

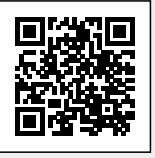
- a) Check the fuel content of the tank with a torch and remove fire protection
- b) No open fires, obey smoking ban and apply ground cables
- c) Refuel through a soaked rag and keep a fire extinguisher available
- d) Apply ground wires, turn on the main switch and magneto ignition

56. What has to be done before entering a TMZ?

- a) Switch on the transponder and activate mode A and C or mode S
- b) Request a clearance before entering
- c) Switch on the transponder, activate mode A, and squawk "IDENT"
- d) File a flight plan before the flight

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57. The empty weight and the corresponding center of gravity (CG) of an aircraft are initially determined...

- a) By weighing.
- b) Through data provided by the aircraft manufacturer.
- c) By calculation.
- d) For one aircraft of a type only, since all aircraft of the same type have the same mass and CG position.

58. What does the slip indicator show?

- a) Apparent vertical
- b) Rate of turn
- c) Vertical to horizon
- d) Airplane's bank

59. Which distances to clouds have to be maintained during a VFR flight in airspaces C, D and E?

- a) 1500 m horizontally, 1000 ft vertically
- b) 1500 m horizontally, 1000 m vertically
- c) 1000 m horizontally, 1500 ft vertically
- d) 1000 m horizontally, 300 m vertically

60. What is the function of the blood platelets (thrombocytes)?

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

61. Which of the following options states a correct position report?

- a) DEABC reaching "N"
- b) DEABC over "N" in FL 2500 ft
- c) DEABC, "N", 2500 ft
- d) DEABC over "N" at 35

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62. What kind of information should be included in an urgency message?

- a) Nature of problem or observation, important information for support, departure aerodrome, information about position, heading and altitude
- b) Intended routing, important information for support, intentions of the pilot, information about position, departure aerodrome, heading and altitude
- c) Nature of problem or observation, important information for support, intentions of the pilot, information about position, heading and altitude
- d) Intended routing, important information for support, intentions of the pilot, departure aerodrome, destination aerodrome, heading and altitude

63. Complacency is a risk due to...

- a) The high number of mistakes normally made by humans.
- b) Increased cockpit automation.
- c) The high error rate of technical systems.
- d) Better training options for young pilots.

64. What action should be taken when entering a windshear? 1. Reduce speed 2. Retract gear and flaps 3. Maintain current configuration 4. Adjust thrust

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

65. The pressure compensation between wing upper and lower surfaces 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.

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

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

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67. 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

68. A deceleration during a straight horizontal flight can lead to the illusion of...

- a) A climb.
- b) A descent.
- c) A bank.
- d) An inverted flight.

69. What has to be considered when entering an RMZ?

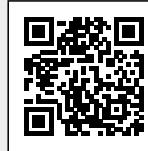
- a) To permanently monitor the radio and if possible to establish radio contact
- b) To obtain a clearance from the local aviation authority
- c) The transponder has to be switched on Mode C and squawk 7000
- d) To obtain a clearance to enter this area

70. What is the function of the static rudder balance?

- a) To trim the controls almost without any force
- b) To increase the control stick forces
- c) To limit the control stick forces
- d) To prevent control surface flutter

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Response Scheme

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

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

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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: _____		