

Exam simulation

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STUDENT NAME:

DATE AND TIME:

01. The altimeter's reference scale is set to airfield pressure (QFE). What indication is shown during the flight?

- a) Altitude above MSL
- b) Height above airfield
- c) Airfield elevation
- d) Pressure altitude

02. What situation may result in the occurrence of severe wind shear?

- a) Flying ahead of a warm front with visible Ci clouds
- b) Cross-country flying below Cu clouds with about 4 octas coverage
- c) During final approach, 30 min after a heavy shower has passed the airfield
- d) When a shower is visible close to the airfield

03. What is the parallax error?

- a) Wrong interpretation of instruments caused by the angle of vision
- b) Misperception of speed during taxiing
- c) Long-sightedness due to aging especially during night
- d) A decoding error in communication between pilots

04. Carbon monoxide poisoning can be caused by...

- a) Alcohol
- b) Unhealthy food
- c) Little sleep
- d) Smoking

05. Which air traffic service is responsible for the safe conduct of flights?

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

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06. Where can the type of restriction for a restricted airspace be found?

- a) AIC
- b) ICAO chart 1:500000
- c) AIP
- d) NOTAM

07. Which of the stated materials shows the highest strength?

- a) Magnesium
- b) Carbon fiber reinforced plastic
- c) Aluminium
- d) Wood

08. Which area could be crossed with certain restrictions?

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

09. A boundary between a cold polar air mass and a warm subtropical air mass showing no horizontal displacement is called...

- a) Cold front
- b) Warm front
- c) Stationary front
- d) Occluded front

10. Which effect does a decreasing airspeed have on the induced drag during a horizontal and stable cruise flight?

- a) The induced drag will slightly decrease
- b) The induced drag will collapse
- c) The induced drag will increase
- d) The induced drag will remain constant

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11. An aircraft is following a true course (TC) of 040° at a constant true airspeed (TAS) of 180 kt. The wind vector is 350°/30 kt. The groundspeed (GS) equals...

- a) 155 kt
- b) 172 kt
- c) 168 kt
- d) 159 kt

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

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

13. Which of the listed wing shapes has the lowest induced drag?

- a) Rectangular shape
- b) Trapezoidal shape
- c) Elliptical shape
- d) Double trapezoidal shape

14. What are the effects of wet grass on the take-off and landing distance?

- a) Decrease of the take-off distance and increase of the landing distance
- b) Increase of the take-off distance and increase of the landing distance
- c) Increase of the take-off distance and decrease of the landing distance
- d) Decrease of the take-off distance and decrease of the landing distance

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

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

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16. While planning a cross country gliding flight, what ground structure should be avoided en route?

- a) Stone quarries and large sand areas
- b) Highways, railroad tracks and channels
- c) Moist ground, water areas, marsh areas
- d) Areas with buildings, concrete and asphalt

17. What type of turbulence is typically found close to the ground on the lee side during Foehn conditions?

- a) Clear-air turbulence (CAT)
- b) Inversion turbulence
- c) Turbulence in rotors
- d) Thermal turbulence

18. The term ,magnetic course' (MC) is defined as...

- a) The direction from an arbitrary point on Earth to the magnetic north pole.
- b) The angle between magnetic north and the course line.
- c) The angle between true north and the course line.
- d) The direction from an arbitrary point on Earth to the geographic North Pole.

19. 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

20. What is the meaning of the abbreviation "VMC"?

- a) Variable meteorological conditions
- b) Visual meteorological conditions
- c) Instrument flight conditions
- d) Visual flight rules

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21. Which factor shortens landing distance?

- a) Heavy rain
- b) High pressure altitude
- c) High density altitude
- d) Strong head wind

22. The center of pressure is the theoretical point of origin of...

- a) Only the resulting total drag
- b) Gravity forces of the profile
- c) All aerodynamic forces of the profile
- d) Gravity and aerodynamic forces

23. What pressure pattern can be observed at a lift-generating wing profile at positive angle of attack?

- a) Low pressure is created above, higher pressure below the profile
- b) Pressure above remains unchanged, higher pressure is created below the profile
- c) High pressure is created above, lower pressure below the profile
- d) Pressure below remains unchanged, lower pressure is created above the profile

24. Which direction corresponds to 'compass north' (CN)?

- a) The most northerly part of the magnetic compass in the aircraft, where the reading takes place
- b) The direction to which the direct reading compass aligns due to earth's and aircraft's magnetic fields
- c) The angle between the aircraft heading and magnetic north
- d) The direction from an arbitrary point on Earth to the geographical North Pole

25. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 270° to a heading of 360°. At approximately which indication of the magnetic compass should the turn be terminated?

- a) 270°
- b) 030°
- c) 360°
- d) 330°

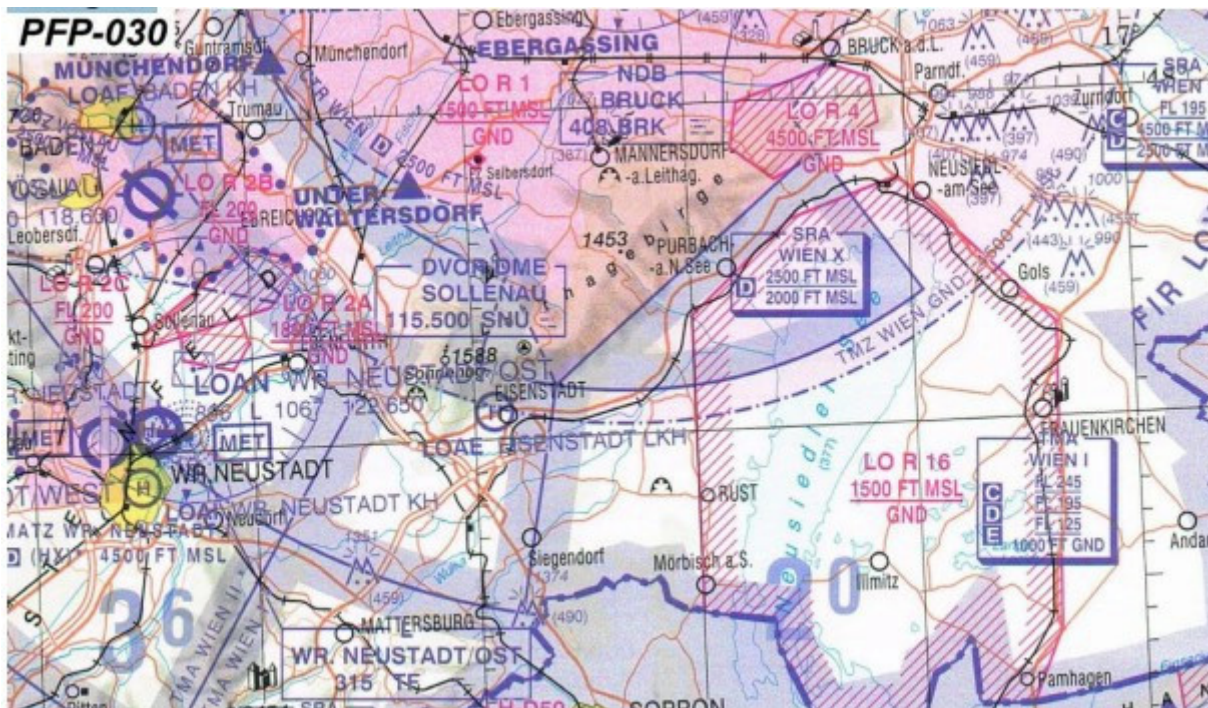
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26. The upper limit of LO R 4 equals... See annex (PPF-030)



- a) 1.500 ft AGL
- b) 1.500 ft MSL
- c) 4.500 ft MSL
- d) 1.500 ft MSL

27. At which altitude is the atmospheric pressure approximately half the MSL value (1013 hPa)?

- a) 18000 ft
- b) 22000 ft
- c) 10000 ft
- d) 5000 ft

28. How does a laminar boundary layer differ from a turbulent boundary layer?

- a) The laminar boundary layer is thinner and provides more skin-friction drag
- b) The turbulent boundary layer can follow the airfoil camber at higher angles of attack
- c) The laminar boundary layer produces lift, the turbulent boundary layer produces drag
- d) The turbulent boundary layer is thicker and provides less skin-friction drag

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29. Given: WCA: -012°; TH: 125°; MC: 139°; DEV: 002°E What are: TC, MH and CH?

- a) TC: 113°. MH: 127°. CH: 129°.
- b) TC: 137°. MH: 127°. CH: 125°.
- c) TC: 137°. MH: 139°. CH: 125°.
- d) TC: 113°. MH: 139°. CH: 129°.

30. The term 'civil twilight' is defined as...

- a) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the apparent horizon
- b) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the true horizon
- c) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the true horizon
- d) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the apparent horizon

31. What cloud sequence can typically be observed during the passage of a warm front?

- a) Wind becoming calm, dissipation of clouds and warming during summer; formation of extended high fog layers during winter
- b) Squall line with showers of rain and thunderstorms (Cb), gusting wind followed by cumulus clouds with isolated showers of rain
- c) Cirrus, thickening altostratus and altocumulus clouds, lowering cloud base with rain, nimbostratus
- d) In coastal areas during daytime wind from the coast and forming of cumulus clouds, dissipation of clouds during evening and night

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

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

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33. Given: True course from A to B: 250°. Ground distance: 210 NM. TAS: 130 kt. Headwind component: 15 kt. Estimated time of departure (ETD): 0915 UTC. The estimated time of arrival (ETA) is...

- a) 1115 UTC
- b) 1005 UTC
- c) 1105 UTC
- d) 1052 UTC

34. Which abbreviation is used for the term "visual flight rules"?

- a) VFS
- b) VRU
- c) VFR
- d) VMC

35. A vertical speed indicator measures the difference between...

- a) Total pressure and static pressure
- b) Dynamic pressure and total pressure
- c) Instantaneous static pressure and previous static pressure
- d) Instantaneous total pressure and previous total pressure

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

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

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

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

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38. During a flight in colder-than-ISA air the indicated altitude is...

- a) Higher than the true altitude
- b) Equal to the true altitude
- c) Equal to the standard altitude
- d) Lower than the true altitude

39. What is the purpose of the signal square at an aerodrome?

- a) It is an illuminated area on which search and rescue and fire fighting vehicles are placed
- b) It contains special symbols to indicate the conditions at the aerodrome visually to over-flying aircraft
- c) Aircraft taxi to this square to get light signals for taxi and take-off clearance
- d) It is a specially marked area to pick up or drop towing objects

40. During a right turn, the yaw string is drawn to the left from center position. By what rudder input can the string be centered again?

- a) Less bank, less rudder in turn direction
- b) Less bank, more rudder in turn direction
- c) More bank, less rudder in turn direction
- d) More bank, more rudder in turn direction

41. What phenomenon is caused by cold air downdrafts with precipitation from a fully developed thunderstorm cloud?

- a) Electrical discharge
- b) Anvil-head top of Cb cloud
- c) Gust front
- d) Freezing Rain

42. The shortest distance between two points on Earth is represented by a part of...

- a) A rhumb line
- b) A small circle
- c) A parallel of latitude
- d) A great circle

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

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

44. Which characteristic is important when choosing sunglasses used by pilots?

- a) Curved sidepiece
- b) Non-polarised
- c) Unbreakable
- d) No UV filter

45. What information can be found in the ATIS, but not in a METAR?

- a) Operational information such as runway in use and transition level
- b) Information about current weather, for example types of precipitation
- c) Approach information, such as ground visibility and cloud base
- d) Information about mean wind speeds, maximum speeds in gusts if applicable

46. A construction made of frames and stringer with a supporting skin is called...

- a) Honeycomb structure
- b) Wood- or mixed construction
- c) Semi-monocoque construction
- d) Grid construction

47. The Caution Area is marked on an airspeed indicator by what color?

- a) Red
- b) Green
- c) White
- d) Yellow

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48. An aircraft is following a true course (TC) of 040° at a constant true airspeed (TAS) of 180 kt. The wind vector is 350°/30 kt. The wind correction angle (WCA) equals...

- a) + 11°
- b) - 9°
- c) - 7°
- d) + 5°

49. The character of an air mass is given by what properties?

- a) Wind speed and tropopause height
- b) Environmental lapse rate at origin
- c) Region of origin and track during movement
- d) Temperatures at origin and present region

50. Electronic devices on board of an aeroplane have influence on the...

- a) Direct reading compass
- b) Airspeed indicator
- c) Turn coordinator
- d) Artificial horizon

51. Which of the following is NOT a symptom of hyperventilation?

- a) Cyanosis
- b) Disturbance of consciousness
- c) Spasm
- d) Tingling

52. What is a latent error?

- a) An error which only has consequences after landing
- b) An error which has an immediate effect on the controls
- c) An error which is made by the pilot actively and consciously
- d) An error which remains undetected in the system for a long time

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53. What is the correct term for a message used for air traffic control?

- a) Meteorological message
- b) Message related to direction finding
- c) Flight safety message
- d) Flight regularity message

54. With Central European Summer Time (CEST) given as UTC+2, what UTC time corresponds to 1600 CEST?

- a) 1600 UTC
- b) 1700 UTC
- c) 1500 UTC
- d) 1400 UTC

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

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

56. 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

57. What is necessary for the determination of speed (IAS) by the airspeed indicator?

- a) The difference between the total pressure and the dynamic pressure
- b) The difference between the dynamic pressure and the static pressure
- c) The difference between the standard pressure and the total pressure
- d) The difference between the total pressure and the static pressure

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58. When increasing the airflow speed by a factor of 2 while keeping all other parameters constant, how does the parasite drag change approximately?

- a) It decreases by a factor of 2
- b) It increases by a factor of 2
- c) It decreases by a factor of 4
- d) It increases by a factor of 4

59. The barometric altimeter with QFE setting indicates...

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

60. During a flight in an air mass with a temperature equal to ISA and the QNH set correctly, the indicated altitude is...

- a) Lower than the true altitude
- b) Equal to the standard atmosphere
- c) Higher than the true altitude
- d) Equal to the true altitude

61. A transponder with the ability to send the current pressure level is a...

- a) Transponder approved for airspace "B".
- b) Mode C or S transponder.
- c) Pressure-decoder.
- d) Mode A transponder.

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

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

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63. Vienna (LOWW) is located at 016° 34'E, Salzburg (LOWS) at 013° 00'E. The latitude of both positions can be considered as equal. What is the difference of sunrise and sunset times, expressed in UTC, between Wien and Salzburg?

- a) In Vienna the sunrise is 4 minutes later and sunset is 4 minutes earlier than in Salzburg
- b) In Vienna the sunrise and sunset are about 14 minutes earlier than in Salzburg
- c) In Vienna the sunrise and sunset are about 4 minutes later than in Salzburg
- d) In Vienna the sunrise is 14 minutes earlier and sunset is 14 minutes later than in Salzburg

64. What describes "wing loading"?

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

65. What is the result of extending flaps with increasing aerofoil camber?

- a) Maximum permissible speed increases
- b) Minimum speed increases
- c) Minimum speed decreases
- d) C.G. position moves forward

66. The term 'True Course' (TC) is defined as...

- a) The direction from an arbitrary point on Earth to the magnetic north pole.
- b) The direction from an arbitrary point on Earth to the geographic North Pole.
- c) The angle between magnetic north and the course line.
- d) The angle between true north and the course line.

67. When do you expect wind shear?

- a) During an inversion
- b) When passing a warm front
- c) During a summer day with calm winds
- d) In calm wind in cold weather

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68. 5500 m equal...

- a) 18000 ft
- b) 30000 ft
- c) 7500 ft
- d) 10000 ft

69. What is the primary purpose of an aircraft accident investigation?

- a) To identify the reasons and work out safety recommendations
- b) To clarify questions of liability within the meaning of compensation for passengers
- c) To work for the public prosecutor and help to follow-up flight accidents
- d) To determine the guilty party and draw legal consequences

70. The angle between the magnetic course and the true course is called...

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

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Response Scheme

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

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

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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: _____		