

Exam simulation

SPL - Sailplane Pilot License - Flight Performance and Planning



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STUDENT NAME:

DATE AND TIME:

01. What is the correct term for the system which, among others, controls breathing, digestion, and heart frequency?

- a) Critical nervous system
- b) Autonomic nervous system
- c) Automatical nervous system
- d) Compliant nervous system

02. During the last phase of a winch launch, the glider pilot does not release pull on the elevator. The automatic latch releases the cable at high wing load. What consequences have to be considered?

- a) A higher altitude can be reached using this technique
- b) Extreme stress on the structure of the glider plane
- c) This technique can compensate for insufficient wind correction
- d) Only by this sudden jerk the release of the cable can be assured

03. Flying with speeds higher than the never-exceed-speed (vNE) may result in...

- a) Reduced drag with increased control forces
- b) An increased lift-to-drag ratio and a better glide angle
- c) Too high total pressure resulting in an unusable airspeed indicator
- d) Flutter and mechanically damaging the wings

04. Which answer states a risk factor for diabetes?

- a) Sleep deficiency
- b) Overweight
- c) Smoking
- d) Alcohol consumption

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05. During a winch launch, just after stabilizing full climb attitude, the pull on cable suddenly stops. What action should be taken by the glider pilot?

- a) Push slightly, wait for pull on cable to be re-established
- b) Inform winch driver by alternate aileron input
- c) Push firmly and decouple cable immediately
- d) Pull on elevator to increase cable tension

06. What are the minimum distances to clouds for a VFR flight in airspace "B"?

- a) Horizontally 1.500 m, vertically 300 m
- b) Horizontally 1.500 m, vertically 1.000 m
- c) Horizontally 1.000 m, vertically 300 m
- d) Horizontally 1.000 m, vertically 1.500 ft

07. Why is it not allowed to launch with the C.G. positioned beyond the aft limit?

- a) Because rudder inputs may not be sufficient for controlling flight attitude
- b) Because increased nose-down moment may not be compensated
- c) Because structural limits may be exceeded
- d) Because maximum permissible speed will be reduced significantly

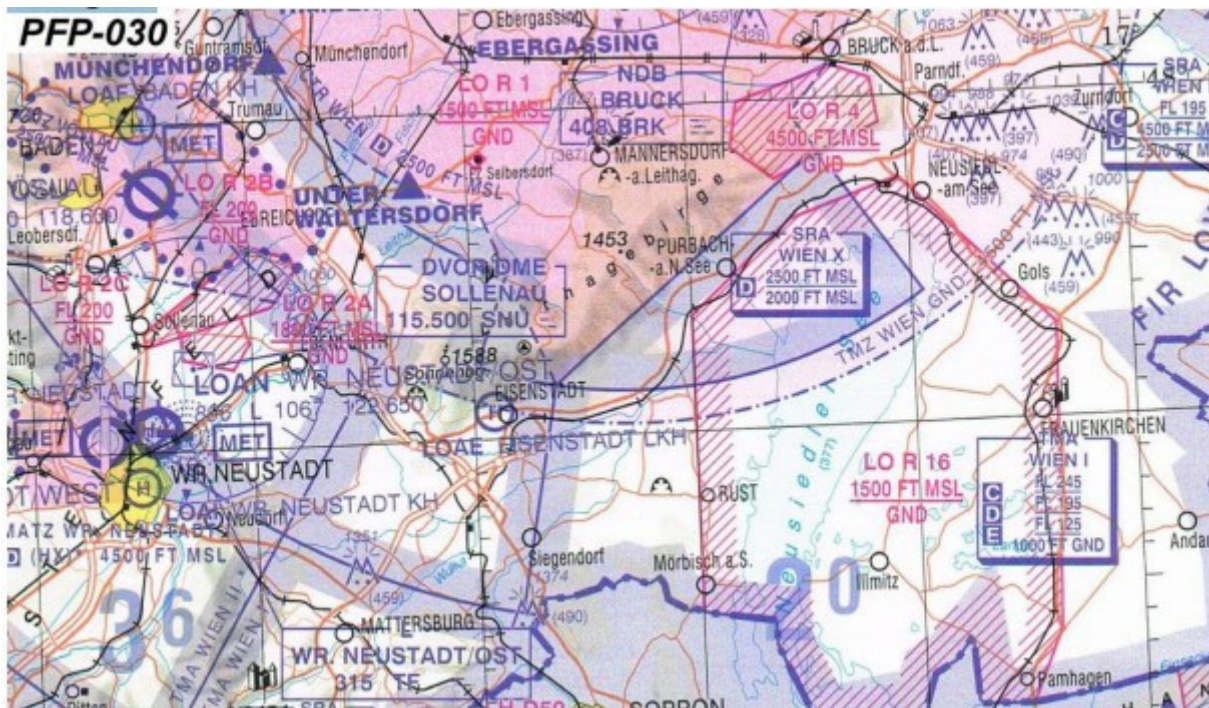
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08. The upper limit of LO R 4 equals... See annex (PPF-030)



- a) 1.500 ft AGL
- b) 2.500 ft AGL
- c) 4.500 ft MSL
- d) 1.500 ft MSL

09. When landing with tailwind, the pilot has to...

- a) Approach with normal speed and shallow angle
- b) Compensate tailwind by sideslip
- c) Increase approach speed
- d) Land with gear retracted to shorten ground roll distance

10. A flight level is a...

- a) True altitude
- b) Altitude above ground
- c) Density altitude
- d) Pressure altitude

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11. The validity of a medical examination certificate class 2 for a 62 years old pilot is...

- a) 12 Months
- b) 48 Months
- c) 24 Months
- d) 60 Months

12. During flight close to aerodrome in about 250 m AGL you encounter strong descent and go for a safety landing. What speed should be flown when heading towards the airfield?

- a) Best glide speed plus additional for downdrafts and wind
- b) Best glide speed
- c) Minimum rate of descent speed
- d) Maximum manoeuvring speed VA

13. What engines are commonly used with Touring Motor Gliders (TMG)?

- a) 2 plate Wankel
- b) 2 Cylinder Diesel
- c) 4 Cylinder 2 stroke
- d) 4-cylinder 4-stroke

14. What is the difference in time when the sun moves 10° of longitude?

- a) 0:04 h
- b) 1:00 h
- c) 0:40 h
- d) 0:30 h

15. The balance arm is the horizontal distance between...

- a) The C.G. of a mass and the rear C.G. limit
- b) The front C.G. limit and the datum line
- c) The front C.G. limit and the rear C.G. limit
- d) The C.G. of a mass and the datum line

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16. The angle of descent is defined as...

- a) The ratio between the change in height and the horizontal distance travelled within the same time, expressed in percent [%]
- b) The angle between a horizontal plane and the actual flight path, expressed in degrees [°]
- c) The angle between a horizontal plane and the actual flight path, expressed in percent [%]
- d) The ratio between the change in height and the horizontal distance travelled within the same time, expressed in degrees [°]

17. What pressure pattern can be observed when a cold front is passing?

- a) Continually increasing pressure
- b) Shortly decreasing, thereafter increasing pressure
- c) Continually decreasing pressure
- d) Constant pressure pattern

18. Which levers in a glider's cockpit are indicated by the colours red, blue and green? Levers for usage of ...

- a) Gear, speed brakes and elevator trim tab
- b) Speed brakes, cable release and elevator trim
- c) Speed brakes, cabin hood lock and gear
- d) Cabin hood release, speed brakes, elevator trim

19. What does a cloud coverage of "BKN" mean in a METAR weather report?

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

20. What information is provided in the general part (GEN) of the AIP?

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

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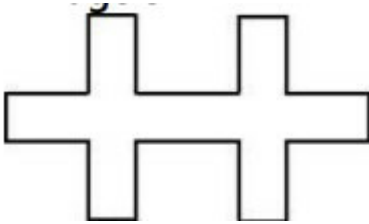
21. How is referred to a tubular steel construction with a non self-supporting skin?

- a) Grid construction
- b) Honeycomb structure
- c) Monocoque construction
- d) Semi-monocoque construction

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

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

23. What is the meaning of this sign at an aerodrome? See figure (ALW-011)



- a) After take-off and before landing all turns have to be made to the right
- b) Caution, manoeuvring area is poor
- c) Glider flying is in progress
- d) Landing prohibited for a longer period

24. What has to be checked before any change in direction during glide?

- a) Check for turn to be flown coordinated
- b) Check for thermal clouds
- c) Check for loose object secured
- d) Check for free airspace in desired direction

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25. Off-field landing may be prone to accident when...

- a) The approach is conducted using distinct approach segments
- b) The decision is made above minimum safe altitude
- c) The approach is conducted onto a harvested corn field
- d) The decision to land off-field is made too late

26. Where are the two polar circles?

- a) 23.5° north and south of the poles
- b) 23.5° north and south of the equator
- c) At a latitude of 20.5°S and 20.5°N
- d) 20.5° south of the poles

27. What weather conditions can be expected in high pressure areas during winter?

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

28. 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

29. Air consists of oxygen, nitrogen and other gases. What is the approximate percentage of other gases?

- a) 21 %
- b) 1 %
- c) 78 %
- d) 0.1 %

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30. What is the percentage of nitrogen in the atmosphere?

- a) 21 %
- b) 78 %
- c) 0.1 %
- d) 1 %

31. 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

32. Rotation around the vertical axis is called...

- a) Slipping
- b) Pitching
- c) Yawing
- d) Rolling

33. Is it possible to enter airspace C with a glider plane?

- a) Yes, but only with transponder activated
- b) No
- c) With restrictions, in case of less air traffic
- d) Yes, but only with approval of the respective ATC unit

34. 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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35. 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

36. An off-field landing with tailwind is inevitable. How should the landing be conducted?

- a) Approach with reduced speed, expect shorter flare and ground roll distance
- b) Normal approach, when reaching landing site, extend spoiler flaps and push down elevator
- c) Approach with normal speed, expect longer flare and ground roll distance
- d) Approach with increased speed without use of spoiler flaps

37. A wind shear is...

- a) A wind speed change of more than 15 kt
- b) A meteorological downslope wind phenomenon in the alps
- c) A vertical or horizontal change of wind speed and wind direction
- d) A slow increase of the wind speed in altitudes above 13000 ft

38. With Central European Time (CET) given as UTC+1, what UTC time corresponds to 1700 CET?

- a) 1500 UTC
- b) 1700 UTC
- c) 1800 UTC
- d) 1600 UTC

39. What is the gas composition of "air"?

- a) Oxygen 78 % Water vapour 21 % Nitrogen 1 %
- b) Oxygen 21 % Nitrogen 78 % Noble gases / carbon dioxide 1 %
- c) Oxygen 21 % Water vapour 78 % Noble gases / carbon dioxide 1 %
- d) Nitrogen 21 % Oxygen 78 % Noble gases / carbon dioxide 1 %

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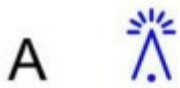


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40. A sailplane being airtowed gets into an excessive high position behind the towing plane. What action by the glider pilot can prevent further danger for glider and towing plane?

- a) Initiate a sideslip to reduce excessive height
- b) Pull strongly, thereafter decouple the cable
- c) Carefully extend spoiler flaps, steer glider back into normal position
- d) Push strongly to bring glider back to normal position

41. Using annex PFP-061, which ICAO chart symbol indicates a group of unlighted obstacles?



PFP-061

- a) Symbol B
- b) Symbol D
- c) Symbol A
- d) Symbol C

42. During a right turn, the yaw string is drawn to the left from centre position. By what rudder input can the string be centred 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

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43. Before the launch using a parallel-cable winch, the glider pilot realizes the second cable lying close to his glider about to launch. What actions should be taken by the glider pilot?

- a) Keep an eye on second cable, decouple after take-off if necessary
- b) Continue launch with rudder input on opposite direction to second cable
- c) Conduct normal take-off, inform airfield controller after landing
- d) Decouple cable immediately, inform airfield controller via radio

44. The indication of a magnetic compass deviates from magnetic north direction due to what errors?

- a) Inclination and declination of the earth's magnetic field
- b) Gravity and magnetism
- c) Deviation, turning and acceleration errors
- d) Variation, turning and acceleration errors

45. During a winch launch, after reaching full climb attitude, the airspeed indicator fails. What action should be taken by the glider pilot?

- a) Continue launch to normal altitude, use horizontal image and airstream noise to conduct flight as planned
- b) Try to re-establish airspeed indication by abrupt changes of speed during launch
- c) Push elevator, decouple cable and perform short pattern with minimum speed
- d) Continue launch to normal altitude, use horizontal image and airstream noise for pattern and landing right away

46. What distance can be covered during a glide in a glider plane with glide ratio 1/30 from a height of 1500 m? (Neglect wind and thermal effects)

- a) 30 km
- b) 45 NM
- c) 45 km
- d) 81 NM

47. What information can be obtained from satellite images?

- a) Overview of cloud covers and front lines
- b) Turbulence and icing
- c) Temperature and dew point of environmental air
- d) Flight visibility, ground visibility, and ground contact

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48. 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

49. Which of the following options states all primary flight controls of an aircraft?

- a) Flaps, slats, speedbrakes
- b) Elevator, rudder, aileron, trim tabs, high-lift wing devices, power controls
- c) Elevator, rudder, aileron
- d) All movable parts on the aircraft which aid in controlling the aircraft

50. Which of the following options is likely to produce large induced drag?

- a) Large aspect ratio
- b) Small aspect ratio
- c) Low lift coefficients
- d) Tapered wings

51. QFE is the...

- a) Altitude above the reference pressure level 1013.25 hPa
- b) Magnetic bearing to a station
- c) Barometric pressure adjusted to sea level, using the international standard atmosphere (ISA)
- d) Barometric pressure at a reference datum, typically the runway threshold of an airfield

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

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

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53. Using annex PFP-063, which ICAO chart symbol indicates a general spot elevation?

- A 300
- B (300)
- C •1737
- D •1737

PFP-063

- a) D
- b) C
- c) B
- d) A

54. Which statement about a rhumb line is correct?

- a) A rhumb line is a great circle intersecting the equator with 45° angle
- b) The centre of a complete cycle of a rhumb line is always the Earth's centre
- c) A rhumb line cuts each meridian at the same angle
- d) The shortest track between two points along the Earth's surface follows a rhumb line

55. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL125?

- a) 8000 m
- b) 1500 m
- c) 5000 m
- d) 10000 m

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56. Which parts of an aircraft mainly affect the generation of induced drag?

- a) The front part of the fuselage
- b) The outer part of the ailerons
- c) The lower part of the gear
- d) The wing tips

57. Temperatures will be given by meteorological aviation services in Europe in which unit?

- a) Gpdam
- b) Kelvin
- c) Degrees Centigrade (° C)
- d) Degrees Fahrenheit

58. Which transponder code has to be set unrequested during an emergency?

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

59. Baggage and cargo must be properly stowed and fastened, otherwise a shift of the cargo may cause...

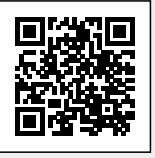
- a) Calculable instability if the C.G. is shifting by less than 10 %
- b) Continuous attitudes which can be corrected by the pilot using the flight controls
- c) Structural damage, angle of attack stability, velocity stability
- d) Uncontrollable attitudes, structural damage, risk of injuries

60. What is the subject of ICAO Annex 1?

- a) Flight crew licensing
- b) Air traffic services
- c) Rules of the air
- d) Operation of aircraft

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61. How should a glider plane be parked when observing strong winds?

- a) Nose into the wind, keep and weigh tail down
- b) Nose into the wind, extend air brakes, secure rudders
- c) Downwind wing on the ground, weigh wing down, secure rudders
- d) Windward wing on the ground, weigh wing down, secure rudders

62. The centre of gravity (CG) defines...

- a) The point on the longitudinal axis or its extension from which the centres of gravity of all masses are referenced
- b) The point through which the force of gravity is said to act on a mass
- c) The distance from the datum to the position of a mass
- d) The product of mass and balance arm

63. What is the distance between the parallels of latitude 48°N and 49°N along a meridian line?

- a) 60 NM
- b) 111 NM
- c) 1 NM
- d) 10 NM

64. The vertical speed indicator measures the difference of pressure between...

- a) The present dynamic pressure and the dynamic pressure of a previous moment
- b) The present total pressure and the total pressure of a previous moment
- c) The present dynamic pressure and the static pressure of a previous moment
- d) The present static pressure and the static pressure of a previous moment

65. What does the abbreviation "H24" stand for?

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

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66. Clouds in high layers are referred to as...

- a) Cirro-.
- b) Strato-.
- c) Nimbo-.
- d) Alto-.

67. What engine design at a Touring Motor Glider (TMG) results in least drag?

- a) Engine and propeller mounted fixed on the fuselage
- b) Engine and propeller mounted stowable on the fuselage
- c) Engine and propeller mounted fixed at the aircraft's nose
- d) Engine and propeller mounted fixed at the horizontal stabilizer

68. Given: True course from A to B: 283°. Ground distance: 75 NM. TAS: 105 kt. Headwind component: 12 kt. Estimated time of departure (ETD): 1242 UTC. The estimated time of arrival (ETA) is...

- a) 1330 UTC
- b) 1356 UTC
- c) 1430 UTC
- d) 1320 UTC

69. What weather is likely to be experienced during "Foehn" in the Bavarian area close to the alps?

- a) Cold, humid downhill wind on the lee side of the alps, flat pressure pattern
- b) Nimbostratus cloud in the southern alps, rotor clouds at the lee side, warm and dry wind
- c) High pressure area overhead Biscay and low pressure area in Eastern Europe
- d) Nimbostratus cloud in the northern alps, rotor clouds at the windward side, warm and dry wind

70. What phrase is used by a pilot to inform the tower about a go-around?

- a) Pulling up
- b) Going around
- c) No landing
- d) Approach canceled

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Response Scheme

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

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