

Exam simulation

SPL - Sailplane Pilot License - Principles of Flight (Aeroplane)



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STUDENT NAME:

DATE AND TIME:

01. 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

02. 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) 6500 ft
- b) 6250 ft
- c) 7000 ft
- d) 6750 ft

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

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

04. 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

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05. A heading of 285 degrees is correctly transmitted as...

- a) Two hundred eighty-five
- b) Two eight five hundred
- c) Two eight five
- d) Two hundred eight five

06. Which answer is correct concerning stress?

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

07. An ATIS is valid for...

- a) 45 minutes
- b) 60 minutes
- c) 30 minutes
- d) 10 minutes

08. What must be considered for cross-border flights?

- a) Transmission of hazard reports
- b) Requires flight plans
- c) Regular location messages
- d) Approved exceptions

09. With only a slight crosswind, what is the danger at take-off after the departure of a heavy aeroplane?

- a) Wake turbulence rotate faster and higher
- b) Wake turbulence is amplified and distorted
- c) Wake turbulence twisting transverse to the runway
- d) Wake turbulence on or near the runway

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10. What is the function of the white blood cells (leucocytes)?

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

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

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

12. 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) 150°
- b) 180°
- c) 360°
- d) 210°

13. The term "balance arm" in the context of a mass and balance calculation defines the...

- a) Distance of a mass from the centre of gravity
- b) Point on the longitudinal axis of an aeroplane or its extension from which the centres of gravity of all masses are referenced
- c) Distance from the datum to the centre of gravity of a mass
- d) Point through which the force of gravity is said to act on a mass

14. What is the usual direction of movement of a polar front low?

- a) Parallel to the warm-sector isobars
- b) To the northeast during winter, to the southeast during summer
- c) Parallel to the warm front line to the south
- d) To the northwest during winter, to the southwest during summer

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15. What is referred to as torsion-stiffed leading edge?

- a) The part of the main cross-beam to support torsion forces
- b) Special shape of the leading edge
- c) The point where the torsion moment on a wing begins to decrease
- d) Both-side planked leading edge (from edge to cross-beam) to support torsion forces

16. Which of the human senses is most influenced by hypoxia?

- a) The olfactory perception (smell)
- b) The tactile perception (sense of touch)
- c) The auditory perception (hearing)
- d) The visual perception (vision)

17. 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

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

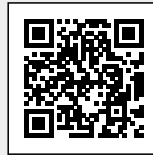
- a) Because rudder inputs may not be sufficient for controlling flight attitude
- b) Because increased nose-down moment may not be compensated
- c) Because structural limits may be exceeded
- d) Because maximum permissible speed will be reduced significantly

19. What wind is reported as 225/15?

- a) North-east wind with 15 kt
- b) South-west wind with 15 kt
- c) South-west wind with 15 km/h
- d) North-east wind with 15 km/h

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

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

21. The distance between the centre of gravity and the datum is called...

- a) Lever
- b) Torque
- c) Span width
- d) Balance arm

22. A pilot licence issued in accordance with ICAO Annex 1 is valid in...

- a) Those countries that have accepted this licence on application
- b) The country where the licence was acquired
- c) All ICAO countries
- d) The country where the licence was issued

23. Times are transmitted as...

- a) Local time.
- b) Time zone time.
- c) UTC.
- d) Standard time.

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

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25. During final approach, you realize that you missed to extend the gear. How should the landing be conducted?

- a) You land without gear, and carefully touch down with minimum speed
- b) You extend the gear immediately and land as usual
- c) You retract flaps, extend the gear and land as usual
- d) You land without gear with higher than usual speed

26. During a flight, a flight plan can be filed at the...

- a) Search and Rescue Service (SAR)
- b) Flight Information Service (FIS)
- c) Next airport operator en-route
- d) Aeronautical Information Service (AIS)

27. A risk factor for decompression sickness is...

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

28. Which of the following factors affects the reception of VHF transmissions?

- a) Height of ionosphere
- b) Altitude
- c) Twilight error
- d) Shoreline effect

29. 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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30. During initial winch launch, one wing of a glider plane gets ground contact. What action should be taken by the glider pilot?

- a) Pull the elevator
- b) Decouple cable immediately
- c) Rudder in opposite direction
- d) Ailerons in opposite direction

31. 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

32. What is meant by "ground effect"?

- a) Decrease of lift and increase of induced drag close to the ground
- b) Increase of lift and decrease of induced drag close to the ground
- c) Increase of lift and increase of induced drag close to the ground
- d) Decrease of lift and decrease of induced drag close to the ground

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

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

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

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

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35. An inversion is a layer ...

- a) With constant temperature with increasing height
- b) With increasing pressure with increasing height
- c) With increasing temperature with increasing height
- d) With decreasing temperature with increasing height

36. The thickness of the wing is defined as the distance between the lower and the upper side of the wing at the...

- a) Thinnest part of the wing
- b) Most inner part of the wing
- c) Thickest part of the wing
- d) Most outer part of the wing

37. Despite several attempts, the landing gear can be extended, but not locked. How should the landing be conducted?

- a) Keep gear unlocked and perform normal landing
- b) Keep a firm grip on gear handle during normal landing
- c) Retract landing gear and perform belly landing with minimum speed
- d) Retract gear and perform belly landing with increased speed

38. How can a pilot confirm a search and rescue signal on ground in flight?

- a) Push the rudder in both directions multiple times
- b) Fly in a parabolic flight path multiple times
- c) Rock the wings
- d) Deploy and retract the landing flaps multiple times

39. Given: True course: 120°. TAS: 120 kt. Wind: 150°/12 kt. The WCA equals...

- a) 3° to the right
- b) 6° to the right
- c) 6° to the left
- d) 3° to the left

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40. Which dangerous attitudes are often combined?

- a) Invulnerability and self-abandonment
- b) Self-abandonment and macho
- c) Macho and invulnerability
- d) Impulsivity and carefulness

41. 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

42. What process causes latent heat being released into the upper troposphere?

- a) Cloud forming due to condensation
- b) Descending air across widespread areas
- c) Evaporation over widespread water areas
- d) Stabilisation of inflowing air masses

43. What does a cloud coverage of "SCT" mean in a METAR weather report?

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

44. How can dangerous situations be prevented when the sailplane approaches close to a pattern altitude during a cross-country flight?

- a) Try to reach cumulus clouds visible at the far horizon and use their thermal updrafts
- b) Despite the planned flight, decide for an off-field landing
- c) Maintain radio communication up to full stop after off-field landing
- d) Search for thermal updrafts on the lee side of a selected landing field

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

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

46. During a cross-country flight, you approach a downwind turning point. The point should be taken...

- a) As low as possible
- b) As steep as possible
- c) As high as possible
- d) With as little bank as possible

47. What is the meaning of the abbreviation "ARC"?

- a) Airworthiness Recurring Control
- b) Airspace Rulemaking Committee
- c) Airworthiness Review Certificate
- d) Airspace Restriction Criteria

48. What heights should be considered for landing phases with a glider plane?

- a) 100 m abeam threshold and 50 m after final approach turn
- b) 300 m abeam threshold and 150 m in final approach
- c) 500 m abeam threshold and 50 m after final approach turn
- d) 150 - 200 m abeam threshold and 100 m after final approach turn

49. Which are the different parts of the Aeronautical Information Publication (AIP)?

- a) GEN MET RAC
- b) GEN AGA COM
- c) GEN COM MET
- d) GEN ENR AD

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50. In straight and level flight with constant performance of the engine, the angle of attack at the wing is...

- a) Smaller than in a descent
- b) Greater than in a climb
- c) Greater than at take-off
- d) Smaller than in a climb

51. Which optical illusion might be caused by a runway with an upslope during the approach?

- a) The pilot has the feeling that the approach is too low and therefore approaches the runway above the regular glide slope
- b) The pilot has the feeling that the approach is too slow and speeds up above the normal approach speed
- c) The pilot has the feeling that the approach is too fast and reduces the speed below the normal approach speed
- d) The pilot has the feeling that the approach is too high and therefore descends below the regular glide slope

52. What does the term "Red-out" mean?

- a) "Red vision" during negative g-loads
- b) Falsified colour perception during sunrise and sunset
- c) Anaemia caused by an injury
- d) Rash during decompression sickness

53. 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

54. Given: TC: 179°; WCA: -12°; VAR: 004° E; DEV: +002° What are MH and MC?

- a) MH: 163°. MC: 175°
- b) MH: 167°. MC: 161°
- c) MH: 163°. MC: 161°
- d) MH: 167°. MC: 175°

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55. Urgency messages are messages...

- a) Sent by a pilot or aircraft operating agency with operational information for aircraft in flight.
- b) Concerning aircraft and occupants facing grave and imminent danger and requiring immediate assistance.
- c) Concerning the operation or maintenance of facilities essential for flight safety or regularity.
- d) Concerning the safety of an aircraft, vessel, vehicle or person, but not requiring immediate distress assistance.

56. 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 %

57. Which of the mentioned cockpit instruments is connected to the pitot tube?

- a) Direct-reading compass
- b) Altimeter
- c) Vertical speed indicator
- d) Airspeed indicator

58. If surrounded by airflow ($v > 0$), any arbitrarily shaped body produces...

- a) Drag and lift
- b) Drag
- c) Lift without drag.
- d) Constant drag at any speed

59. Airspeed indicator, altimeter and vertical speed indicator all show incorrect indications at the same time. What error can be the cause?

- a) Blocking of static pressure lines
- b) Leakage in compensation vessel
- c) Blocking of pitot tube
- d) Failure of the electrical system

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60. 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

61. 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

62. 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

63. What is the meaning of the phrase "Approved"?

- a) I understand your message and will comply with it
- b) Permission for proposed action is granted
- c) I have received all of your last transmission
- d) An error has been made in this transmission. The correct version is...

64. What is the effect of pulling the control yoke or stick backwards?

- a) The aircraft's tail will produce a decreased upward force, causing the aircraft's nose to drop
- b) The aircraft's tail will produce an increased upward force, causing the aircraft's nose to rise
- c) The aircraft's tail will produce an increased downward force, causing the aircraft's nose to drop
- d) The aircraft's tail will produce an increased downward force, causing the aircraft's nose to rise

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65. The term "static pressure" is defined as pressure...

- a) Inside the aeroplane cabin
- b) Of undisturbed airflow
- c) Resulting from orderly flow of air particles
- d) Sensed by the pitot tube

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

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

67. In case of cable break during airtow, a longer part of the cable remains attached to the glider plane. What action should be taken by the glider pilot?

- a) Decouple immediately and proceed with coupling unlatched
- b) Conduct normal approach, release cable immediately after ground contact
- c) Perform low approach and request information about cable length by airfield controller, decouple if necessary
- d) When in safe height, drop cable overhead empty terrain or overhead airfield

68. Where is interference drag generated?

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

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

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

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70. Which pressure is sensed by the Pitot tube?

- a) Dynamic air pressure
- b) Cabin air pressure
- c) Total air pressure
- d) Static air pressure

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Response Scheme

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

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

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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: _____		