

Exam simulation

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



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STUDENT NAME:

DATE AND TIME:

01. 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

02. 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

03. Extending airbrakes results in ...

- a) Less drag and more lift
- b) More drag and less lift
- c) More drag and more lift
- d) Less drag and less lift

04. 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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05. What is the meaning of an area marked as "TMZ"?

- a) Transponder Mandatory Zone
- b) Transportation Management Zone
- c) Touring Motorglider Zone
- d) Traffic Management Zone

06. 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

07. An aircraft must be loaded and operated in such a way that the centre of gravity (CG) stays within the approved limits during all phases of flight. This is done to ensure...

- a) That the aircraft does not exceed the maximum permissible airspeed during a descent
- b) Both stability and controllability of the aircraft
- c) That the aircraft does not tip over on its tail while it is being loaded.
- d) That the aircraft does not stall.

08. 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

09. 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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10. What landing technique is recommended for landing on a down-hill grass area?

- a) In general up-hill
- b) Diagonal down-hill
- c) With brakes applied on main wheel, no air brakes
- d) Full air brakes, gear retracted and stalled

11. 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

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

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

13. Assume two arbitrary points A and B on the same parallel of latitude, but not on the equator. Point A is located on 010°E and point B on 020°E. The rhumb line distance between A and B is always...

- a) Less than 300 NM
- b) Less than 600 NM
- c) More than 600 NM
- d) More than 300 NM

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14. 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 higher 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 lower than actual pressure, the indication is too low. This may lead to much closer proximity to the ground than intended
- c) 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
- d) 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

15. How do dew point and relative humidity change with decreasing temperature?

- a) Dew point decreases, relative humidity increases
- b) Dew point remains constant, relative humidity increases
- c) Dew point increases, relative humidity decreases
- d) Dew point remains constant, relative humidity decreases

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

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

17. 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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18. What is the meaning of the phrase "Correction"?

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

19. Two aircraft of the same type, same grossweight and same configuration fly at different airspeeds. Which aircraft will cause more severe wake turbulence?

- a) The aircraft flying at lower altitude
- b) The aircraft flying at higher speed
- c) The aircraft flying at higher altitude
- d) The aircraft flying at slower speed

20. During thermal soaring, another sailplane is following close by. What should be done to avoid a collision?

- a) You reduce speed to let the other sailplane fly by
- b) You reduce bank to achieve a larger turn radius
- c) You increase bank to be better seen from the other sailplane
- d) You increase speed to achieve a position opposite in the circle

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

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

22. The term "centre of gravity" is defined as...

- a) The heaviest point on an aeroplane
- b) Half the distance between the neutral point and the datum line
- c) Another designation for the neutral point
- d) The point at which the total mass of the aeroplane is considered to act

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23. How can you determine wind direction in case of an outlanding?

- a) Monitoring of smoke, flags, waving fields
- b) Wind forecast from flight weather report
- c) Request from other pilots who can be reached by radio
- d) Remembering the wind indicated by the windsock at departing airfield

24. 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

25. The movement of air flowing together is called...

- a) Convergence.
- b) Subsidence.
- c) Confluence.
- d) Divergence.

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. The term "flight time" is defined as...

- a) The period from engine start for the purpose of taking off to leaving the aircraft after engine shutdown
- b) The period from the start of the take-off run to the final touchdown when landing
- c) The total time from the first aircraft movement until the moment it finally comes to rest at the end of the flight
- d) The total time from the first take-off until the last landing in conjunction with one or more consecutive flights

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28. 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

29. Which of the following is NOT a risk factor for hypoxia?

- a) Blood donation
- b) Smoking
- c) Menstruation
- d) Diving

30. 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

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

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

32. Given: True course: 165°. TAS: 90 kt. Wind: 130°/20 kt. Distance: 153 NM. The true heading equals...

- a) 152°
- b) 158°
- c) 165°
- d) 126°

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33. 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

34. Air traffic control service is conducted by which services?

- a) ALR (alerting service) SAR (search and rescue service) TWR (aerodrome control service)
- b) FIS (flight information service) AIS (aeronautical information service) AFS (aeronautical fixed telecommunication service)
- c) APP (approach control service) ACC (area control service) FIS (flight information service)
- d) TWR (aerodrome control service) APP (approach control service) ACC (area control service)

35. Up to which altitude is an overflight prohibited according to the NOTAM? See figure (PFP-024)

A4604/11 NOTAMN

Q)

EDWW/QROLP/IV/NBO/W/000/095/5155N01037E004

A) EDWW

B) 1111180800 C) 1111181200

E) OVERFLYING PROHIBITED FOR ALL TRAFFIC RADIUS 3.35NM CENTERED AROUND 515436N 0103725E DUE TO DEMOLITION OF EXPLOSIVES AT ECKERTHAL, (25NM S BRAUNSCHWEIG NDB BRU) .

F) GND

G) 9500 FT AMSL

- a) Altitude 9500 ft MSL
- b) Flight Level 95
- c) Altitude 9500 m MSL
- d) Height 9500 ft

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36. The Pitot / static system is required to...

- a) Prevent potential static buildup on the aircraft
- b) Measure total and static air pressure
- c) Prevent icing of the Pitot tube
- d) Correct the reading of the airspeed indicator to zero when the aircraft is static on the ground

37. The required data for a mass and balance calculation including masses and balance arms can be found in the...

- a) Certificate of airworthiness
- b) Mass and balance section of the pilot's operating handbook of this particular aircraft
- c) Performance section of the pilot's operating handbook of this particular aircraft
- d) Documentation of the annual inspection

38. What danger is most imminent when an aircraft is hit by lightning?

- a) Explosion of electrical equipment in the cockpit
- b) Surface overheat and damage to exposed aircraft parts
- c) Rapid cabin depressurization and smoke in the cabin
- d) Disturbed radio communication, static noise signals

39. The term 'isogonal' or 'isogonic line' is defined as a line on an aeronautical chart, connecting all points with the same value of...

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

40. Electronic devices on board an aeroplane have influence on the...

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

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41. The glide ratio of a sailplane can be improved by which measures?

- a) Higher aeroplane mass, thin airfoil, taped gaps between wing and fuselage
- b) Lower aeroplane mass, correct speed, retractable gear
- c) Cleaning, correct speed, retractable gear, taped gaps between wing and fuselage
- d) Forward C.G. position, correct speed, taped gaps between wing and fuselage

42. Which of the following options states the working principle of a vertical speed indicator?

- a) Measuring the present static air pressure and comparing it to the static air pressure inside a reservoir
- b) Measuring the vertical acceleration through the displacement of a gimbal-mounted mass
- c) Total air pressure is measured and compared to static pressure
- d) Static air pressure is measured and compared against a vacuum

43. 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

44. With respect to aircraft accident and incident investigation, what are the three categories regarding aircraft occurrences?

- a) Event Crash Disaster
- b) Event Serious event Accident
- c) Happening Event Serious event
- d) Incident Serious incident Accident

45. What is the correct course of action when experiencing a radio failure in class D airspace?

- a) The flight has to be continued above 5000 feet complying with VFR flight rules or the airspace has to be left by the shortest route
- b) The flight has to be continued above 5000 feet complying with VFR flight rules or the airspace has to be left using a standard routing
- c) The flight has to be continued according to the last clearance complying with VFR rules or the airspace has to be left by the shortest route
- d) The flight has to be continued according to the last clearance complying with VFR flight rules or the airspace has to be left using a standard routing

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46. A flight level is a...

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

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

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

48. 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

49. 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

50. What distance corresponds to one degree difference in latitude along any degree of longitude?

- a) 30 NM
- b) 60 km
- c) 60 NM
- d) 1 NM

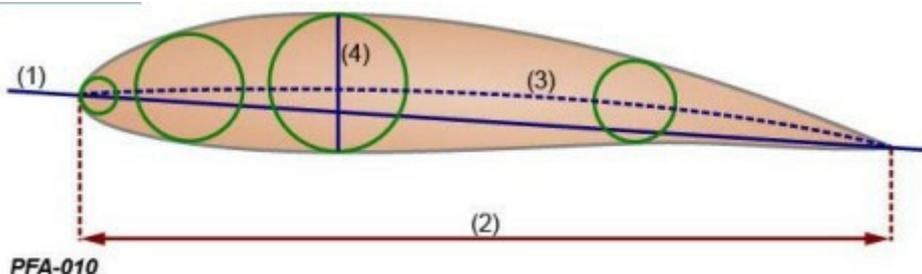
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51. Number 2 in the drawing corresponds to the... See figure (PFA-010)



- a) Profile thickness
- b) Chord
- c) Chord line
- d) Angle of attack

52. 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

53. With regard to thunderstorms, strong up- and downdrafts appear during the...

- a) Mature stage
- b) Dissipating stage
- c) Initial stage
- d) Thunderstorm stage

54. What is the minimum flight visibility in airspace "C" below FL 100 for an aircraft operating under VFR?

- a) 1.5 km
- b) 8 km
- c) 5 km
- d) 10 km

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55. During a cross-country flight, visual meteorological conditions tend to become below minimum conditions. To continue the flight according to minimum visual conditions, the pilot decides to...

- a) Continue the flight referring to sufficient forecasts
- b) Turn back due to sufficient visual meteorological conditions along the previous track
- c) Continue the flight using radio navigational features along the track
- d) Continue the flight using navigational aid by ATC

56. What is the mass of a "cube of air" with the edges 1 m long, at MSL according to ISA?

- a) 0,01225 kg
- b) 0,1225 kg
- c) 12,25 kg
- d) 1,225 kg

57. A distance of 7.5 cm on an aeronautical chart represents a distance of 60.745 NM in reality. What is the chart scale?

- a) 1 : 500000
- b) 1 : 1500000
- c) 1 : 1000000
- d) 1 : 150000

58. What does the abbreviation "FIS" stand for?

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

59. When flying into heavy snowfall, most dangerous will be the...

- a) Sudden blockage of pitot-static system
- b) Sudden increase of airframe icing
- c) Sudden increase in aeroplane mass
- d) Sudden loss of visibility

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60. Which process may result in an inversion layer at about 5000 ft (1500 m) height?

- a) Ground cooling by radiation during the night
- b) Intensive sunlight insolation during a warm summer day
- c) Advection of cool air in the upper troposphere
- d) Widespread descending air within a high pressure area

61. What does a readability of 3 indicate?

- a) The transmission is perfectly readable
- b) The transmission is readable now and then
- c) The transmission is unreadable
- d) The transmission is readable but with difficulty

62. What is an appropriate reaction when a passenger during cruise flight suddenly feels uncomfortable?

- a) Avoid conversation and choose a higher airspeed
- b) Adjust cabin temperature and prevent excessive bank
- c) Switch on the heater blower and provide thermal blankets
- d) Give additional oxygen and avoid low load factors

63. The load factor "n" describes the relationship between...

- a) Weight and thrust
- b) Drag and lift
- c) Lift and weight
- d) Thrust and drag

64. Which phrase is to be repeated three times before transmitting an urgency message?

- a) Mayday
- b) Urgent
- c) Pan Pan
- d) Help

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65. The term "ceiling" is defined as the...

- a) Height of the base of the highest layer of clouds covering more than half of the sky below 20000 ft
- b) Height of the base of the lowest layer of clouds covering more than half of the sky below 10000 ft
- c) Height of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft
- d) Altitude of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft

66. 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

67. Which of the following states the working principle of an airspeed indicator?

- a) Dynamic air pressure is measured by the Pitot tube and converted into a speed indication by the airspeed indicator
- b) Total air pressure is measured by the static ports and converted into a speed indication by the airspeed indicator
- c) Total air pressure is measured and compared against static air pressure
- d) Static air pressure is measured and compared against a vacuum

68. During approach to the next updraft, the vertical speed indicator reads 3 m/s descent. Within the updraft you expect a mean rate of climb of 2 m/s. According to McCready, how should you adjust the speed during approach of the updraft?

- a) The McCready ring should be set to 2 m/s, the recommended speed can be read at the McCready scale next to the sum of current rate of descent at expected rate of climb (5 m/s)
- b) The McCready ring should be set to 3 m/s, the recommended speed can be read at the McCready scale next to the expected rate of climb (2 m/s)
- c) The McCready ring should be set to 2 m/s, the recommended speed can be read at the McCready scale next to the current rate of descent (3 m/s)
- d) Outside of thermal cells, the McCready ring should be set to 0 m/s, the recommended speed can be read at the McCready scale next to the current rate of descent (3 m/s)

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69. Unless the aircraft is equipped and certified accordingly...

- a) Flight into forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, the flight may be continued as long as visual meteorological conditions are maintained.
- b) Flight into known or forecast icing conditions is only allowed as long as it is ensured that the aircraft can still be operated without performance degradation.
- c) Flight into known or forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, it should be left without delay
- d) Flight into areas of precipitation is prohibited.

70. 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

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Response Scheme

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

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