

Exam simulation

SPL - Sailplane Pilot License - Human Performance and limitations



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STUDENT NAME:

DATE AND TIME:

01. In case of a cable break during winch launch, what actions should be taken in the correct order?

- a) Decouple cable, thereafter push nose down; at heights up to 150m GND land straight ahead with increased speed
- b) Push firmly nose down, decouple cable, depending on terrain and wind decide for short pattern or landing straight ahead
- c) Initiate 180° turn and land opposite to runway heading in use, decouple cable before touch down
- d) Keep elevator pulled, stabilize on minimum speed and land on remaining field length

02. What is the correct phrase with respect to wake turbulence to indicate that a light aircraft is following an aircraft of a higher wake turbulence category?

- a) Caution wake turbulence
- b) Be careful wake winds
- c) Danger jet blast
- d) Attention propwash

03. 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

04. What leads to a decreased stall speed V_s (IAS)?

- a) Lower density
- b) Decreasing weight
- c) Lower altitude
- d) Higher load factor

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05. An aircraft is flying with a true airspeed (TAS) of 120 kt and experiences 35 kt tailwind. How much time is needed for a distance of 185 NM?

- a) 1 h 12 min
- b) 2 h 11 min
- c) 0 h 50 min
- d) 1 h 32 min

06. 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

07. What has to be considered when operating a sailplane with water ballast?

- a) Best glide angle decreases
- b) Significant CG shifts
- c) Best glide speed decreases
- d) It should stay below freezing level

08. 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

09. Which statement regarding a spin is correct?

- a) During recovery the ailerons should be kept neutral
- b) During the spin the speed constantly increases
- c) During recovery the ailerons should be crossed
- d) Only very old aeroplanes have a risk of spinning

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10. Pressure compensation on a wing occurs at the...

- a) Wing tips
- b) Leading edge
- c) Trailing edge
- d) Wing roots

11. Which stage of a thunderstorm is dominated by updrafts?

- a) Dissipating stage
- b) Mature stage
- c) Cumulus stage
- d) Upwind stage

12. 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

13. 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

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

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

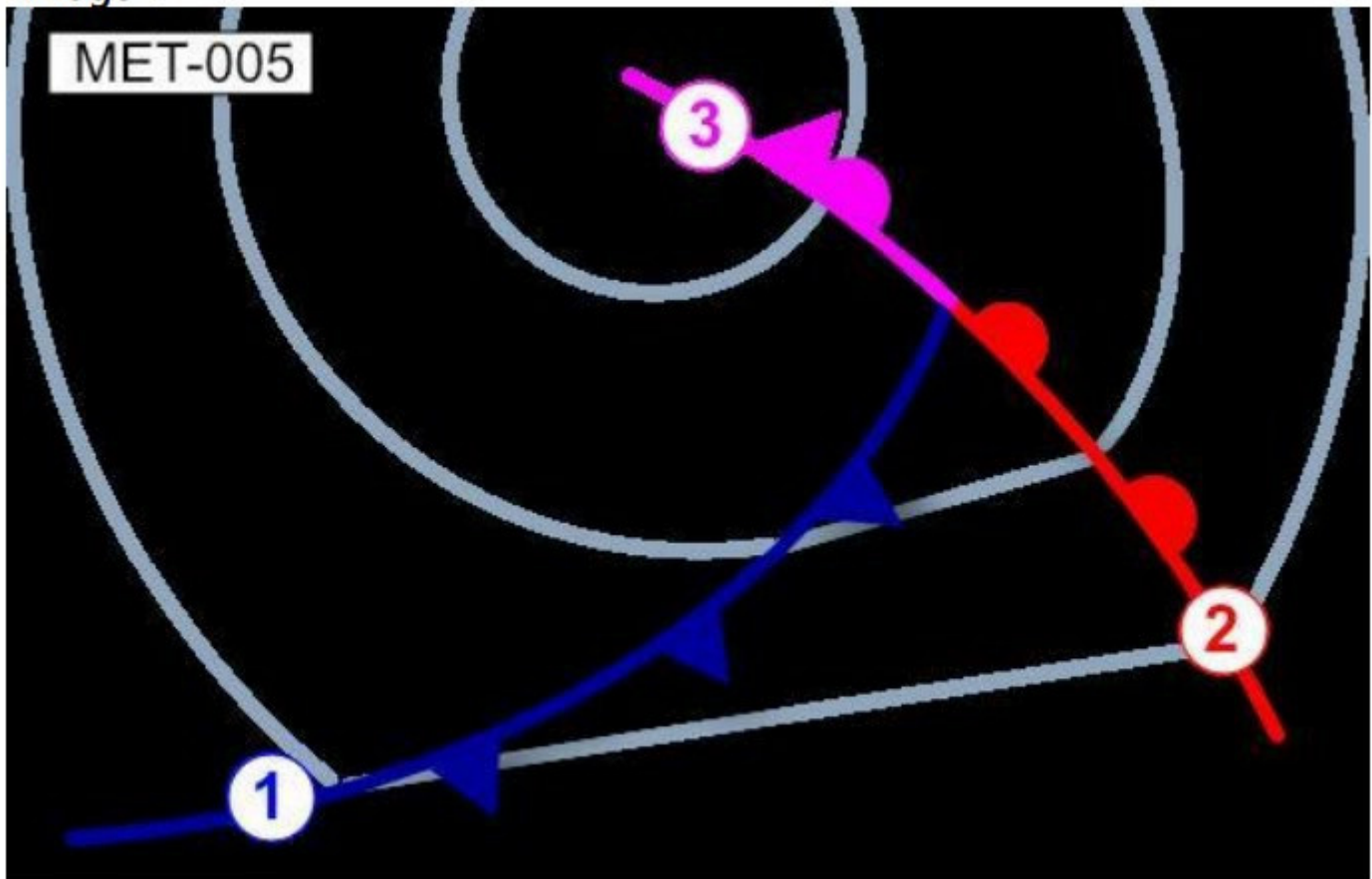
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15. The symbol labeled (1) as shown in the picture is a / an... See figure (MET-005)



- a) Front aloft
- b) Cold front
- c) Occlusion
- d) Warm front

16. 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

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

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

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

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

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

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

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

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

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

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

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22. 1000 ft equal...

- a) 300 m
- b) 3000 m
- c) 30 km
- d) 30 m

23. 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

24. Through which factor listed below does the load factor increase during cruise flight?

- a) Lower air density
- b) A forward centre of gravity
- c) Higher aeroplane weight
- d) An upward gust

25. For what approximate time period can the short-time memory store information?

- a) 3 to 7 seconds
- b) 10 to 20 seconds
- c) 35 to 50 seconds
- d) 30 to 40 seconds

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

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

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27. Which altitude marks the lower limit where the body is unable to completely compensate the effects of the low atmospheric pressure?

- a) 5000 feet
- b) 22000 feet
- c) 12000 feet
- d) 7000 feet

28. Which is the purpose of the altimeter subscale?

- a) To correct the altimeter reading for system errors
- b) To reference the altimeter reading to a predetermined level such as mean sea level, aerodrome level or pressure level 1013.25 hPa
- c) To set the reference level for the altitude decoder of the transponder
- d) To adjust the altimeter reading for non-standard temperature

29. What is the correct term for an involuntary and stereotypical reaction of an organism to the stimulation of a receptor?

- a) Reduction
- b) Coherence
- c) Virulence
- d) Reflex

30. Visual illusions are mostly caused by...

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

31. The term "moment" with regard to a mass and balance calculation is referred to as...

- a) Sum of a mass and a balance arm
- b) Difference of a mass and a balance arm
- c) Quotient of a mass and a balance arm
- d) Product of a mass and a balance arm

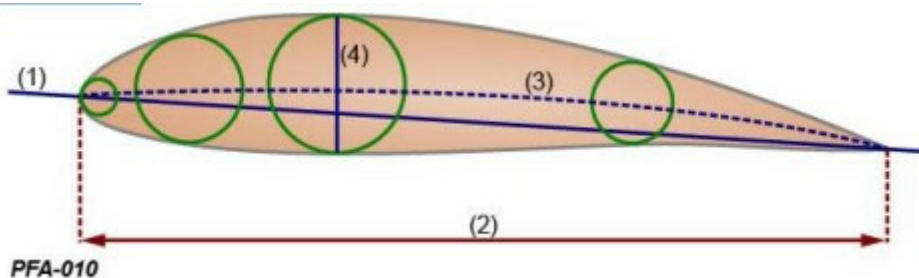
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32. Number 3 in the drawing corresponds to the... See figure (PFA-010)



- a) Camber line
- b) Thickness
- c) Chord
- d) Chord line

33. 5500 m equal...

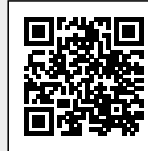
- a) 18000 ft
- b) 30000 ft
- c) 7500 ft
- d) 10000 ft

34. What factors are required for the formation of precipitation in clouds?

- a) The presence of an inversion layer
- b) Moderate to strong updrafts
- c) Calm winds and intensive sunlight insolation
- d) High humidity and high temperatures

35. What is the status of the rules and procedures created by the EASA? (e.g. Part-SFCL, Part-MED)

- a) They are not legally binding, they only serve as a guide
- b) Only after a ratification by individual EU member states they are legally binding
- c) They are part of the EU regulation and legally binding to all EU member states
- d) They have the same status as ICAO Annexes



36. Which are the properties of a Mercator chart?

- a) The scale is constant, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- b) The scales increases with latitude, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- c) The scales increases with latitude, great circles are depicted as straight lines, rhumb lines are depicted as curved lines
- d) The scale is constant, great circles are depicted as straight lines, rhumb lines are depicted as curved lines

37. The correct transponder code for emergencies is...

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

38. What weather development will result from convergence at ground level?

- a) Ascending air and cloud formation
- b) Descending air and cloud dissipation
- c) Ascending air and cloud dissipation
- d) Descending air and cloud formation

39. "Foehn" conditions usually develop with...

- a) Instability, high pressure area with calm wind.
- b) Stability, high pressure area with calm wind.
- c) Stability, widespread air blown against a mountain ridge.
- d) Instability, widespread air blown against a mountain ridge.

40. 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

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

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

42. 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

43. What is the purpose of the breaking points on a winch cable?

- a) It is used for automatic cable release after winch launch
- b) It protects the winch from being overshot by the glider plane
- c) It is used to limit the rate of climb during winch launch
- d) It prevents excessive stress on the glider plane

44. How are the flight controls on a small single-engine piston aircraft normally controlled and actuated?

- a) Manually through rods and control cables
- b) Hydraulically through hydraulic pumps and actuators
- c) Electrically through fly-by-wire
- d) Power-assisted through hydraulic pumps or electric motors

45. 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

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46. Which of the stated surfaces will reduce the wind speed most due to ground friction?

- a) Flat land, lots of vegetation cover
- b) Flat land, deserted land, no vegetation
- c) Oceanic areas
- d) Mountainous areas, vegetation cover

47. 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

48. During a stall, the lift...

- a) Decreases and drag increases
- b) Increases and drag increases
- c) Decreases and drag decreases
- d) Increases and drag decreases

49. 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

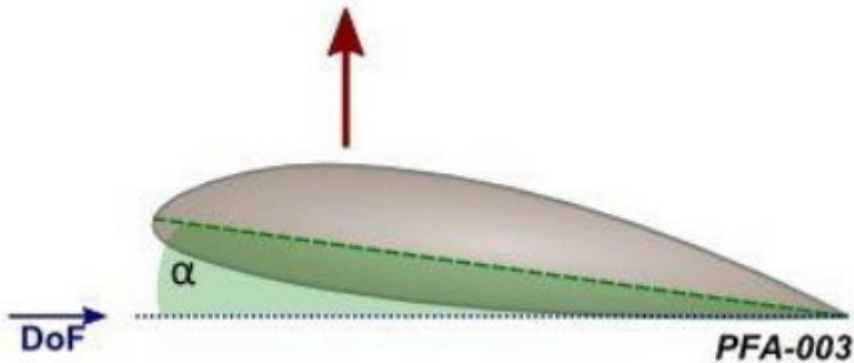
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50. The angle (alpha) shown in the figure is referred to as... See figure (PFA-003) DoF: direction of airflow



- a) Lift angle
- b) Angle of attack
- c) Angle of incidence
- d) Angle of inclination

51. Which kinds of drag contribute to total drag?

- a) Interference drag and parasite drag
- b) Induced drag and parasite drag
- c) Induced drag, form drag, skin-friction drag
- d) Form drag, skin-friction drag, interference drag

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

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

53. 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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54. A precautionary landing is a landing...

- a) Conducted with the flaps retracted
- b) Conducted without power from the engine
- c) Conducted in response to circumstances forcing the aircraft to land
- d) Conducted in an attempt to sustain flight safety

55. 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

56. 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

57. Being intercepted by a military aircraft at daytime, what is the meaning of the following signal: A sudden heading change of 90 degrees or more and a pull-up of the aircraft without crossing the track of the intercepted aircraft?

- a) Follow me, i will bring you to the next suitable airfield
- b) You may continue your flight
- c) Prepare for a safety landing, you have entered a prohibited area
- d) You are entering a restricted area, leave the airspace immediately

58. 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

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59. 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

60. What conditions are favourable for the formation of thunderstorms?

- a) Calm winds and cold air, overcast cloud cover with St or As.
- b) Warm and dry air, strong inversion layer
- c) Warm humid air, conditionally unstable environmental lapse rate
- d) Clear night over land, cold air and patches of fog

61. Which processes result in decreasing air density?

- a) Decreasing temperature, increasing pressure
- b) Increasing temperature, increasing pressure
- c) Increasing temperature, decreasing pressure
- d) Decreasing temperature, decreasing pressure

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

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

63. The total weight of an aeroplane is acting vertically through the...

- a) Stagnation point
- b) Centre of pressure
- c) Neutral point
- d) Centre of gravity

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

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

65. 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

66. An aircraft is flying at a pressure altitude of 7000 feet with an outside air temperature (OAT) of +11°C. The QNH altitude is 6500 ft. The true altitude equals...

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

67. When airtowing using side-located latch, the sailplane tends to...

- a) Show particularly stable flight characteristics
- b) Quickly turn around longitudinal axis
- c) Show enhanced pitch up moment
- d) Show enhanced turn to latch-mounted side

68. What is the meaning of the phrase "Roger"?

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

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69. 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...

70. What color has the emergency hood release handle?

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

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Response Scheme

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

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