

Exam simulation

SPL - Sailplane Pilot License - Meteorology



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STUDENT NAME:

DATE AND TIME:

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

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

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. 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

04. 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

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05. What does a cloud coverage of "FEW" mean in a METAR weather report?

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

06. What is the correct way of using the aircraft call sign at first contact?

- a) Using the last two characters only
- b) Using all characters
- c) Using the first three characters only
- d) Using the first two characters only

07. A Grey-out is the result of...

- a) Hyperventilation
- b) Tiredness
- c) Hypoxia
- d) Positive g-forces

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

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

09. What change of wind direction can be expected during the passage of a polar front low in Central Europe?

- a) Backing wind during passage of the warm front, veering wind during passage of the cold front
- b) Veering wind during passage of the warm front, veering wind during passage of the cold front
- c) Veering wind during passage of the warm front, backing wind during passage of the cold front
- d) Backing wind during passage of the warm front, backing wind during passage of the cold front

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10. 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

11. 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

12. 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

13. What is the purpose of the secondary flight controls?

- a) To improve the performance characteristics of an aircraft and relieve the pilot of excessive control forces
- b) To improve the turn characteristics of an aircraft in the low speed regime during approach and landing
- c) To enable the pilot to control the aircraft's movements about its three axes
- d) To constitute a backup system for the primary flight controls

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

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

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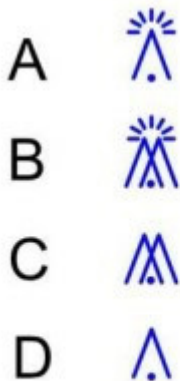


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15. What situation is called "over-development" in a weather report?

- a) Change from blue thermals to cloudy thermals during the afternoon
- b) Development of a thermal low to a storm depression
- c) Vertical development of Cumulus clouds to rain showers
- d) Widespread spreading of Cumulus clouds below an inversion layer

16. 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

17. 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

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18. 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

19. Clouds are basically distinguished by what types?

- a) Thunderstorm and shower clouds
- b) Cumulus and stratiform clouds
- c) Stratiform and ice clouds
- d) Layered and lifted clouds

20. 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

21. What weather phenomena have to be expected around an upper-level trough?

- a) Calm weather, formation of lifted fog layers
- b) Calm wind, forming of shallow cumulus clouds
- c) Development of showers and thunderstorms (Cb)
- d) Formation of high stratus clouds, ground-covering cloud bases

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

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

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23. The fuselage structure may be damaged by...

- a) Airspeed decreasing below a certain value
- b) Neutralizing stick forces according to actual flight state
- c) Exceeding the manoeuvring speed in heavy gusts
- d) Stall after exceeding the maximum angle of attack

24. 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

25. What weather conditions may be expected during conditionally unstable conditions?

- a) Towering cumulus, isolated showers of rain or thunderstorms
- b) Layered clouds up to high levels, prolonged rain or snow
- c) Sky clear of clouds, sunshine, low winds
- d) Shallow cumulus clouds with base at medium levels

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

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

27. What process results in the formation of "orographic fog" ("hill fog")?

- a) Prolonged radiation during nights clear of clouds
- b) Warm, moist air is moved across a hill or a mountain range
- c) Evaporation from warm, moist ground area into very cold air
- d) Cold, moist air mixes with warm, moist air

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28. 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

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

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

30. Point A on the Earth's surface lies exactly on the parallel of latitude of 47°50'27"N. Which point is exactly 240 NM north of A?

- a) 53°50'27"N
- b) 49°50'27"N
- c) 51°50'27"N
- d) 43°50'27"N

31. Lower-than-standard temperature may lead to...

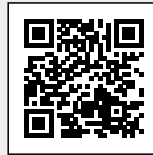
- a) An altitude indication which is too high
- b) An altitude indication which is too low
- c) A correct altitude indication as long as the altimeter subscale is set to correct for non-standard temperature
- d) A blockage of the Pitot tube by ice, freezing the altimeter indication to its present value

32. The measurement of altitude is based on the change of the...

- a) Static pressure
- b) Dynamic pressure
- c) Total pressure
- d) Differential pressure

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33. The holder of an SPL completed 9 winch launches, 4 aerotow launches and 2 bungee launches during the last 24 months. Which launch methods may the pilot use as PIC today?

- a) Winch and bungee
- b) Winch, bungee and aero-tow
- c) Winch and aero-tow
- d) Aero-tow and bungee

34. 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

35. Which transponder code should be set during a radio failure without any request?

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

36. What are the primary and the secondary effects of a rudder input to the left?

- a) Primary: yaw to the right Secondary: roll to the left
- b) Primary: yaw to the left Secondary: roll to the left
- c) Primary: yaw to the right Secondary: roll to the right
- d) Primary: yaw to the left Secondary: roll to the right

37. Cold air inflow in high tropospheric layers may result in...

- a) Showers and thunderstorms
- b) Frontal weather
- c) Calm weather and cloud dissipation
- d) Stabilisation and calm weather

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38. Wings level after a longer period of turning can lead to the impression of...

- a) Starting a climb
- b) Steady turning in the same direction as before
- c) Turning into the opposite direction.
- d) Starting a descent

39. 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

40. 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.

41. What color has the emergency hood release handle?

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

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

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



43. 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

44. 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

45. 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

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

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

47. The occurrence of a vertigo is most likely when moving the head...

- a) During a turn
- b) During a straight horizontal flight
- c) During a climb
- d) During a descent

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48. 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

49. 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

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

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

51. During airtow, the towing plane disappears from the glider pilot's sight. What action should be taken by the glider pilot?

- a) Decouple cable immediately
- b) Alternate push and pull on the elevator
- c) Alternate turn to the left and to the right
- d) Extend spoiler flaps and return to normal attitude

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. 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

54. 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

55. The term 'agonic line' is defined as a line on Earth or an aeronautical chart, connecting all points with the...

- a) Heading of 0°
- b) Deviation of 0°
- c) Inclination of 0°
- d) Variation of 0°

56. SIGMET warnings are issued for...

- a) Specific routings
- b) Countries
- c) FIRs / UIRs
- d) Airports

57. In what case is visibility transmitted in meters?

- a) Up to 5 km
- b) Greater than 10 km
- c) Greater than 5 km
- d) Up to 10 km

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58. What is a cause for the dip error on the direct-reading compass?

- a) Acceleration of the aeroplane
- b) Temperature variations
- c) Deviation in the cockpit
- d) Inclination of earth's magnetic field lines

59. 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

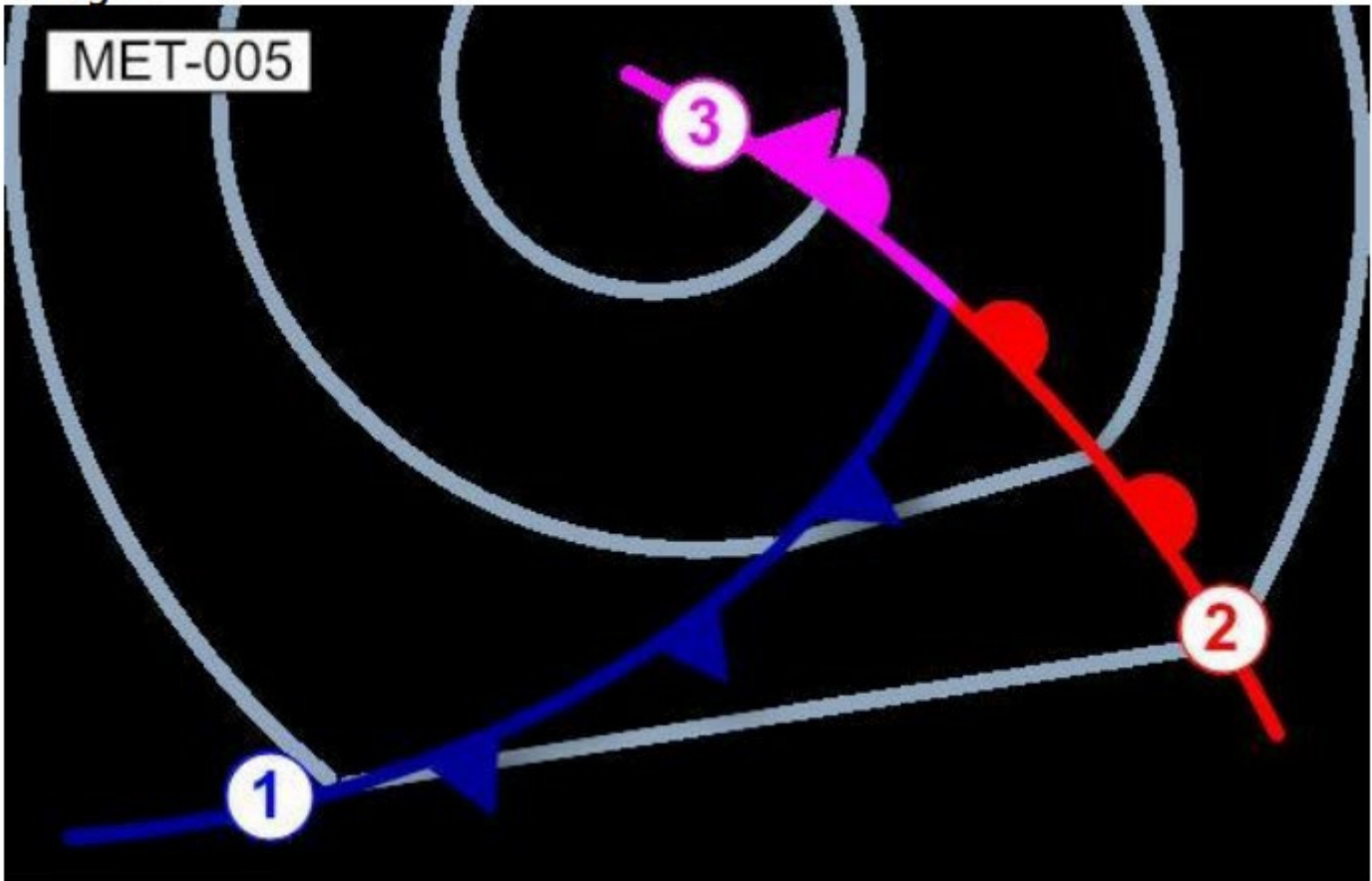
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60. The symbol labeled (3) as shown in the picture is a / an... See figure (MET-005)



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

61. 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

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62. When is it necessary to adjust the pressure in the reference scale of an altimeter?

- a) After maintenance has been finished
- b) Every day before the first flight
- c) Once a month before flight operation
- d) Before every flight and during cross country flights

63. 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

64. What is the call sign of the surface movement control?

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

65. 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

66. 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

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67. What factors may indicate a tendency to fog formation?

- a) Strong winds, decreasing temperature
- b) Low spread, decreasing temperature
- c) Low pressure, increasing temperature
- d) Low spread, increasing temperature

68. 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

69. What is the required flight time for a distance of 236 NM with a ground speed of 134 kt?

- a) 1:34 h
- b) 0:34 h
- c) 0:46 h
- d) 1:46 h

70. 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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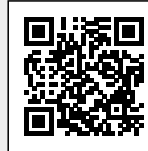
Response Scheme

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

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