

Exam simulation

SPL - Sailplane Pilot License - Navigation



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STUDENT NAME:

DATE AND TIME:

01. Which answer states a risk factor for diabetes?

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

02. 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

03. What is the correct way to transmit the call sign OE-JVK?

- a) Omega Echo Jankee Victor Kilo
- b) Omega Echo Juliett Victor Kilogramm
- c) Oscar Echo Jankee Victor Kilogramm
- d) Oscar Echo Juliett Victor Kilo

04. What cloud type can typically be observed across widespread high pressure areas during summer?

- a) Overcast low stratus
- b) Scattered Cu clouds
- c) Overcast Ns clouds
- d) Squall lines and thunderstorms

05. 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

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

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

07. 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

08. What are the air masses that Central Europe is mainly influenced by?

- a) Arctic and polar cold air
- b) Tropical and arctic cold air
- c) Equatorial and tropical warm air
- d) Polar cold air and tropical warm air

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

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

10. During a flight at FL 80, the altimeter setting has to be...

- a) Local QFE.
- b) Local QNH.
- c) 1030.25 hPa.
- d) 1013.25 hPa.

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11. What are the major components of an aircraft's tail?

- a) Rudder and ailerons
- b) Steering wheel and pedals
- c) Horizontal tail and vertical tail
- d) Ailerons and elevator

12. 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

13. During a left turn, the yaw string is drawn to the left from center position. By what rudder input can the string be centered again?

- a) More bank, less rudder in turn direction
- b) Less bank, more rudder in turn direction
- c) Less bank, less rudder in turn direction
- d) More bank, more rudder in turn direction

14. What is the purpose of "interception lines" in visual navigation?

- a) They are used as easily recognizable guidance upon a possible loss of orientation
- b) They help to continue the flight when flight visibility drops below VFR minima
- c) To mark the next available en-route airport during the flight
- d) To visualize the range limitation from the departure aerodrome

15. An aircraft cruises on a heading of 180° with a true airspeed of 100 kt. The wind comes from 180° with 30 kt. Neglecting instrument and position errors, which will be the approximate reading of the airspeed indicator?

- a) 130 kt
- b) 100 kt
- c) 30 kt
- d) 70 kt

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16. 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

17. A true altitude is...

- a) A height above ground level corrected for non-standard temperature
- b) A height above ground level corrected for non-standard pressure
- c) An altitude above mean sea level corrected for non-standard temperature
- d) A pressure altitude corrected for non-standard temperature

18. What is the correct way of acknowledging the instruction "Squawk 4321, Call Bremen Radar on 131.325"?

- a) Roger
- b) Squawk 4321, 131.325
- c) Squawk 4321, wilco
- d) Wilco

19. In what situation is it appropriate to set the transponder code 7600?

- a) Hijacking
- b) Emergency
- c) Flight into clouds
- d) Loss of radio

20. How many satellites are necessary for a precise and verified three-dimensional determination of the position?

- a) Two
- b) Three
- c) Five
- d) Four

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21. A glider pilot has to conduct an off-field landing in a mountainous region. The only available landing site is highly inclined. How should the landing be conducted?

- a) Approach with increased speed, quick flare to follow the inclined ground
- b) Approach down the ridge with increased speed, push according to ground level during landing
- c) According to prevailing wind, approach and land parallel to the ridge with headwind
- d) Approach with minimum speed, careful flare when reaching the landing site

22. When a pilot gets into a strong downwind area during slope soaring, what action should be recommended?

- a) Continue flight, downwinds around mountains only occur shortly
- b) Increase speed and head away from the ridge
- c) Increase speed and conduct landing parallel to ridge
- d) Increase speed and get closer to the ridge

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

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

24. The ongoing process to monitor the current flight situation is called...

- a) Situational thinking
- b) Situational awareness
- c) Anticipatory check procedure
- d) Constant flight check

25. Which runway designators are correct for 2 parallel runways?

- a) "26" and "26R"
- b) "06L" and "06R"
- c) "18" and "18-2"
- d) "24" and "25"

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26. From which altitude on does the body usually react to the decreasing atmospheric pressure?

- a) 2000 feet
- b) 10000 feet
- c) 12000 feet
- d) 7000 feet

27. 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

28. An aircraft is following a true course (TC) of 220° at a constant TAS of 220 kt. The wind vector is 270°/50 kt. The ground speed (GS) equals...

- a) 185 kt
- b) 255 kt
- c) 170 kt
- d) 135 kt

29. With decreasing air density the airflow speed increases at stall speed (TAS) and vice versa. How has a final approach to be conducted on a hot summer day?

- a) With increased speed indication (IAS)
- b) With unchanged speed indication (IAS)
- c) With decreased speed indication (IAS)
- d) With additional speed according POH

30. Which area could be crossed with certain restrictions?

- a) No-fly zone
- b) Restricted area
- c) Prohibited area
- d) Dangerous area

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31. What is the correct term for a message used for air traffic control?

- a) Meteorological message
- b) Message related to direction finding
- c) Flight safety message
- d) Flight regularity message

32. In which situations should a pilot use blind transmissions?

- a) When a pilot has flown into cloud or fog unintentionally and therefore would like to request navigational assistance from a ground unit
- b) When the traffic situation at an airport allows the transmission of information which does not need to be acknowledged by the ground station
- c) When no radio communication can be established with the appropriate aeronautical station, but when evidence exists that transmissions are received at that ground unit
- d) When a transmission containing important navigational or technical information is to be sent to several stations at the same time

33. What information is broadcasted on a VOLMET frequency?

- a) Current information
- b) Navigational information
- c) Meteorological information
- d) NOTAMS

34. Which are the advantages of sandwich structures?

- a) Low weight, high stiffness, high stability, and high strength
- b) High temperature durability and low weight
- c) High strength and good formability
- d) Good formability and high temperature durability

35. Which air traffic services can be expected within an FIR (flight information region)?

- a) FIS (flight information service) ALR (alerting service)
- b) ATC (air traffic control) FIS (flight information service)
- c) ATC (air traffic control) AIS (aeronautical information service)
- d) AIS (aeronautical information service) SAR (search and rescue)

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36. 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

37. (For this question, please use annex PFP-061) According to ICAO, what symbol indicates a group of unlighted obstacles?

- A 
- B 
- C 
- D 

PFP-061

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

38. 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

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39. 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

40. 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

41. What frontal line divides subtropical air from polar cold air, in particular across Central Europe?

- a) Warm front
- b) Cold front
- c) Occlusion
- d) Polar front

42. Which conditions are likely for the formation of advection fog?

- a) Warm, humid air cools during a cloudy night
- b) Cold, humid air moves over a warm ocean
- c) Humidity evaporates from warm, humid ground into cold air
- d) Warm, humid air moves over a cold surface

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

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

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44. Which distances to clouds have to be maintained during a VFR flight in airspaces C, D and E?

- a) 1500 m horizontally, 1000 ft vertically
- b) 1000 m horizontally, 1500 ft vertically
- c) 1000 m horizontally, 300 m vertically
- d) 1500 m horizontally, 1000 m vertically

45. The majority of aviation accidents are caused by...

- a) Technical failure
- b) Meteorological influences
- c) Human failure
- d) Geographical influences

46. 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

47. The compass error caused by the aircraft's magnetic field is called...

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

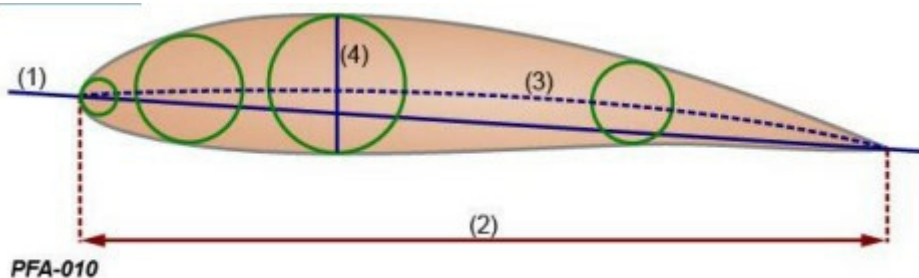
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48. Number 3 in the drawing corresponds to the... See figure (PFA-010)



PFA-010

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

49. 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?

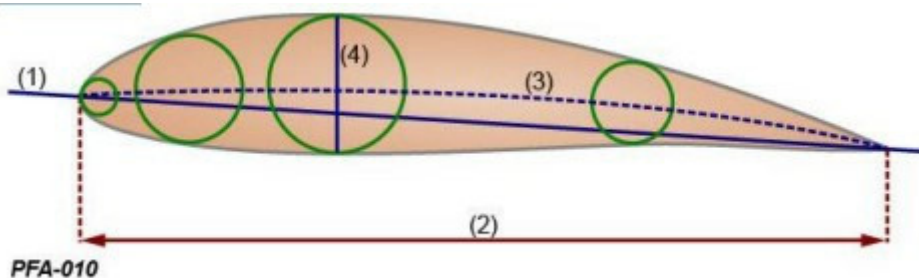
- a) Caution wake turbulence
- b) Be careful wake winds
- c) Danger jet blast
- d) Attention propwash

50. Which of the following documents have to be on board for an international flight? a) Certificate of aircraft registration b) Certificate of airworthiness c) Airworthiness review certificate d) EASA Form-1 e) Airplane logbook f) Appropriate papers for every crew member g) Technical logbook

- a) D, f, g
- b) B, c, d, e, f, g
- c) A, b, c, e, f
- d) A, b, e, g



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. 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

53. The static pressure of gases work...

- a) In all directions
- b) Only in flow direction
- c) Only in the direction of the total pressure
- d) Only vertical to the flow direction

54. Which levers in a glider's cockpit are indicated by the colors 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

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55. Given: WCA: -012°; TH: 125°; MC: 139°; DEV: 002°E What are: TC, MH and CH?

- a) TC: 113°. MH: 127°. CH: 129°.
- b) TC: 137°. MH: 127°. CH: 125°.
- c) TC: 137°. MH: 139°. CH: 125°.
- d) TC: 113°. MH: 139°. CH: 129°.

56. 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

57. Bernoulli's equation for frictionless, incompressible gases states that...

- a) Total pressure = dynamic pressure - static pressure
- b) Total pressure = dynamic pressure + static pressure
- c) Static pressure = total pressure + dynamic pressure
- d) Dynamic pressure = total pressure + static pressure

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58. (For this question, please use annex PFP-063) According to ICAO, what symbol indicates a general spot elevation?

- A 300
- B (300)
- C • 1737
- D • 1737

PFP-063

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

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59. What is the distance from Neustadt (EDAN) (53°22'N, 011°37'E) to Uelzen (EDVU) (52°59'N, 10°28'E)?



- a) 46 km
- b) 46 NM
- c) 78 km
- d) 78 nm

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60. When airtowing using side-located latch, the gliding plane 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

61. 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

62. 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

63. 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

64. 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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65. A Pre-Flight Information Bulletin (PIB) is a presentation of current...

- a) AIC information of operational significance prepared after the flight.
- b) AIP information of operational significance prepared prior to flight.
- c) NOTAM information of operational significance prepared prior to flight.
- d) ICAO information of operational significance prepared after the flight.

66. 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

67. The saturated adiabatic lapse rate is...

- a) Equal to the dry adiabatic lapse rate
- b) Higher than the dry adiabatic lapse rate
- c) Proportional to the dry adiabatic lapse rate
- d) Lower than the dry adiabatic lapse rate

68. 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)

69. 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.

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70. The distance between the center of gravity and the datum is called...

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

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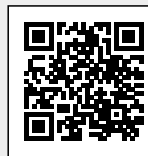
Response Scheme

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

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

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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: _____		