

# Exam simulation

SPL - Sailplane Pilot License - Air Law



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STUDENT NAME:

DATE AND TIME:

## 01. Baggage and cargo must be properly stowed and fastened, otherwise a shift of the cargo may cause...

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- 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

## 02. Which altitude is displayed on the altimeter when set to a specific QFE?

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- a) Altitude in relation to the 1013.25 hPa datum
- b) Altitude in relation to the air pressure at the reference airfield
- c) Altitude in relation to mean sea level
- d) Altitude in relation to the highest elevation within 10 km

## 03. Under which circumstances is it more likely to accept higher risks?

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- a) Due to group-dynamic effects
- b) If there is not enough information available
- c) During check flights due to a high level of nervousness
- d) During flight planning when excellent weather is forecast

## 04. Exceeding the maximum allowed aircraft mass is...

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- a) Compensated by the pilot's control inputs
- b) Only relevant if the excess is more than 10 %
- c) Exceptionally permissible to avoid delays
- d) Not permissible and essentially dangerous

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**05. 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?**

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

**06. Rudder deflections result in a turn of the aeroplane around the...**

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- a) Rudder axis
- b) Vertical axis
- c) Lateral axis
- d) Longitudinal axis

**07. How can a wind shear encounter in flight be avoided?**

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- a) Avoid thermally active areas, particularly during summer, or stay below these areas
- b) Avoid areas of precipitation, particularly during winter, and choose low flight altitudes
- c) Avoid take-off and landing during the passage of heavy showers or thunderstorms
- d) Avoid take-offs and landings in mountainous terrain and stay in flat country whenever possible

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

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- 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

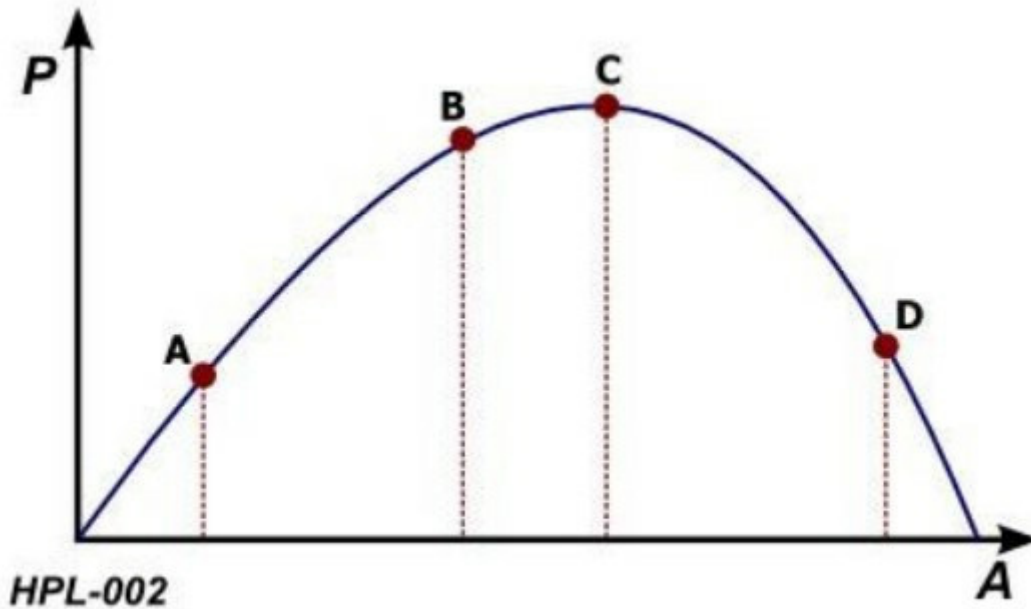
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09. At which point in the diagram will a pilot find himself to be overstrained? See figure (HPL-002) P = Performance A = Arousal / Stress



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

10. Which statement about the airflow around an aerofoil is correct if the angle of attack decreases?

- a) The centre of pressure moves aft
- b) The centre of pressure moves forward
- c) The stagnation point moves down
- d) The stagnation point remains constant

11. Which instrument can be affected by the hysteresis error?

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

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**12. What distance can be covered during a glide in a glider plane with glide ratio 1/30 from a height of 1500 m? (Neglect wind and thermal effects)**

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- a) 30 km
- b) 45 NM
- c) 45 km
- d) 81 NM

**13. Which answer is correct concerning stress?**

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- 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

**14. Using annex PFP-063, which ICAO chart symbol indicates a general spot elevation?**

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

PFP-063

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

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## 15. Carbon monoxide poisoning can be caused by...

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

## 16. Which runway designators are correct for 2 parallel runways?

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

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

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- 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

## 18. What is the correct abbreviation of the call sign D-EAZF?

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- a) AZF
- b) DZF
- c) DEA
- d) DEF

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

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- 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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**20. What is the correct term for the system which, among others, controls breathing, digestion, and heart frequency?**

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- a) Critical nervous system
- b) Autonomic nervous system
- c) Automatical nervous system
- d) Compliant nervous system

**21. What is the minimum flight visibility in airspace "C" at and above FL 100 for an aircraft operating under VFR?**

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

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

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- 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

**23. Which cockpit instruments are connected to the static port?**

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- a) Airspeed indicator, direct-reading compass, slip indicator
- b) Airspeed indicator, altimeter, direct-reading compass
- c) Altimeter, slip indicator, navigational computer
- d) Altimeter, vertical speed indicator, airspeed indicator

**24. During a flight, a flight plan can be filed at the...**

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

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## 25. The load factor "n" describes the relationship between...

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

## 26. Which statement is correct with regard to the short-term memory?

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- a) It can store 7 ( $\pm 2$ ) items for 10 to 20 seconds
- b) It can store 5 ( $\pm 2$ ) items for 1 to 2 minutes
- c) It can store 10 ( $\pm 5$ ) items for 30 to 60 seconds
- d) It can store 3 ( $\pm 1$ ) items for 5 to 10 seconds

## 27. What kind of defect results in loss of airworthiness of an aeroplane?

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- a) Dirty wing leading edge
- b) Crack in the cabin hood plastic
- c) Scratch on the outer painting
- d) Damage to load-bearing parts

## 28. The empty weight and the corresponding centre of gravity (CG) of an aircraft are initially determined...

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- a) By weighing
- b) By calculation
- c) For one aircraft of a type only, since all aircraft of the same type have the same mass and CG position
- d) Through data provided by the aircraft manufacturer.

## 29. What wind is reported as 225/15?

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- 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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**30. With Central European Summer Time (CEST) given as UTC+2, what UTC time corresponds to 1600 CEST?**

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- a) 1600 UTC
- b) 1700 UTC
- c) 1500 UTC
- d) 1400 UTC

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

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

**32. What is meant by "ground effect"?**

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- 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 describes "wing loading"?**

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- a) Wing area per weight
- b) Drag per weight
- c) Weight per wing area
- d) Drag per wing area

**34. What information is broadcasted on a VOLMET frequency?**

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

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## 35. Visual illusions are mostly caused by...

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

## 36. Which item from an aerodrome information transmission does not normally require readback?

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- a) Runway in use
- b) Altitude
- c) Wind
- d) SSR code

## 37. The "Certificate of Airworthiness" is issued by the state...

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- a) Of the residence of the owner
- b) In which the aircraft is registered
- c) In which the airworthiness review is done
- d) In which the aircraft is constructed.

## 38. What type of cloud indicates thermal updrafts?

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- a) Stratus
- b) Cirrus
- c) Cumulus
- d) Lenticularis

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

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- 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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**40. An aeroplane has a heading of 090°. The distance which has to be flown is 90 NM. After 45 NM the aeroplane is 4.5 NM north of the planned flight path. What is the corrected heading to reach the arrival aerodrome directly?**

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- a) 18° to the right
- b) 9° to the right
- c) 6° to the right
- d) 12° to the right

**41. What has to be considered when overflying mountain ridges?**

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- a) Turbulence, reduce to minimum speed
- b) Do not overfly national parks
- c) Turbulence, therefore slightly increase speed
- d) Use circling birds to find thermal cells

**42. Where can the type of restriction for a restricted airspace be found?**

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- a) AIC
- b) ICAO chart 1:500000
- c) AIP
- d) NOTAM

**43. How should a glider plane be parked when observing strong winds?**

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- a) Nose into the wind, keep and weigh tail down
- b) Nose into the wind, extend air brakes, secure rudders
- c) Downwind wing on the ground, weigh wing down, secure rudders
- d) Windward wing on the ground, weigh wing down, secure rudders

**44. Which of the following messages has the highest priority?**

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- a) Turn left
- b) Wind 300 degrees, 5 knots
- c) Request QDM
- d) QNH 1013



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**45. What is the function of the static rudder balance?**

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- a) To prevent control surface flutter
- b) To trim the controls almost without any force
- c) To increase the control stick forces
- d) To limit the control stick forces

---

**46. What has to be considered when operating a sailplane equipped with camber flaps?**

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- a) During approach and landing, camber must not be changed from negative to positive
- b) During approach and landing, camber must not be changed from positive to negative
- c) During winch launch, camber must be set to full negative
- d) During winch launch, camber must be set to full positive

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**47. What are the effects of wet grass on the take-off and landing distance?**

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- a) Decrease of the take-off distance and increase of the landing distance
- b) Increase of the take-off distance and increase of the landing distance
- c) Increase of the take-off distance and decrease of the landing distance
- d) Decrease of the take-off distance and decrease of the landing distance

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**48. The distance between two airports is 220 NM. On an aeronautical navigation chart the pilot measures 40.7 cm for this distance. The chart scale is...**

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- a) 1 : 500000
- b) 1 : 1000000
- c) 1 : 250000
- d) 1 : 2000000

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**49. Regarding the communication model, how can the use of the same code during radio communication be ensured?**

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- a) By the use of proper headsets
- b) By a particular frequency allocation
- c) By the use of radio phraseology
- d) By using radios certified for aviation use only

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

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- a) Heading of  $0^\circ$
- b) Deviation of  $0^\circ$
- c) Inclination of  $0^\circ$
- d) Variation of  $0^\circ$

**51. Given: True course from A to B:  $250^\circ$ . 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...**

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- a) 1115 UTC
- b) 1005 UTC
- c) 1105 UTC
- d) 1052 UTC

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

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- 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

**53. 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?**

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

**54. An aircraft is flying at a pressure altitude of 7000 feet with an outside air temperature (OAT) of  $+11^\circ\text{C}$ . The QNH altitude is 6500 ft. The true altitude equals...**

---

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

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## 55. Which answer is correct with regard to separation in airspace "E"?

---

- a) VFR traffic is not separated from any other traffic
- b) VFR traffic is separated only from IFR traffic
- c) VFR traffic is separated from VFR and IFR traffic
- d) IFR traffic is separated only from VFR traffic

## 56. 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

## 57. Which levers in a glider's cockpit are indicated by the colours 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

## 58. An altitude of 4500 ft is transmitted as...

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- a) Four five thousand
- b) Four five zero zero
- c) Four thousand five zero zero
- d) Four thousand five hundred

## 59. On what frequency shall a blind transmission be made?

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- a) On the appropriate FIS frequency
- b) On a tower frequency
- c) On a radar frequency of the lower airspace
- d) On the current frequency

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

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

## 61. The altimeter can be checked on the ground by setting...

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- a) QFF and comparing the indication with the airfield elevation.
- b) QFE and comparing the indication with the airfield elevation.
- c) QNH and comparing the indication with the airfield elevation.
- d) QNE and checking that the indication shows zero on the ground.

## 62. Which type of ice forms by very small water droplets and ice crystals hitting the front surfaces of an aircraft?

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- a) Rime ice
- b) Clear ice
- c) Mixed ice
- d) Hoar frost

## 63. What is the meaning of the abbreviation "ARC"?

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

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

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

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

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- 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

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**66. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL110?**

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- a) 1500 m
- b) 3000 m
- c) 8000 m
- d) 5000 m

---

**67. What information can be obtained from satellite images?**

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- 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

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**68. Stabilization around the lateral axis during cruise is achieved by the...**

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- a) Wing flaps
- b) Horizontal stabilizer
- c) Ailerons
- d) Vertical rudder

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**69. (For this question, please use annex PFP-062) According to ICAO, what symbol indicates a civil airport (not international airport) with paved runway?**



PFP-062

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

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**70. Up to which altitude is an overflight prohibited according to the NOTAM? See figure (PPF-024)**

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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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## Response Scheme

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

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