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## Part-FCL Question Bank

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*(Excerpt)*

# 60 – Operational Procedures

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**1 Flying slow close to stall conditions, the left wings is lower than the right wing.****How can the stall be prevented? (1,00 P.)**

- Push on the elevator, keep wings level with coordinated inputs on rudder and aileron
- Aileron and rudder to the reight, gain some speed, push slightly on the elevator, all rudders neutral
- Airleron to the right, push slightly on the elevator, gain some speed, all rudders neutral
- Rudder left, push slightly on the elevator, gain some speed, all rudders neutral

**2 The term "flight time" is defined as... (1,00 P.)**

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

**3 A wind shear is... (1,00 P.)**

- a wind speed change of more than 15 kt.
- a meteorological downslope wind phenomenon in the alps.
- a vertical or horizontal change of wind speed and wind direction.
- a slow increase of the wind speed in altitudes above 13000 ft.

**4 Which weather phenomenon is typically associated with wind shear? (1,00 P.)**

- Fog.
- Stable high pressure areas.
- Invernal warm front.
- Thunderstorms.

**5 When do you expect wind shear? (1,00 P.)**

- During an inversion
- When passing a warm front
- During a summer day with calm winds
- In calm wind in cold weather

**6 During an approach the aeroplane experiences a windshear with a decreasing headwind.**

**If the pilot does not make any corrections, how do the approach path and the indicated airspeed (IAS) change? (1,00 P.)**

- Path is higher, IAS increases
- Path is lower, IAS decreases
- Path is lower, IAS increases
- Path is higher, IAS decreases

**7 During an approach the aeroplane experiences a windshear with an increasing headwind.**

**If the pilot does not make any corrections, how do the approach path and the indicated airspeed (IAS) change? (1,00 P.)**

- Path is lower, IAS increases
- Path is higher, IAS decreases
- Path is higher, IAS increases
- Path is lower, IAS decreases

**8 During an approach the aeroplane experiences a windshear with a decreasing tailwind.**

**If the pilot does not make any corrections, how do the approach path and the indicated airspeed (IAS) change? (1,00 P.)**

- Path is higher, IAS decreases
- Path is lower, IAS increases
- Path is higher, IAS increases
- Path is lower, IAS decreases

**9 How can a wind shear encounter in flight be avoided? (1,00 P.)**

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

- 10 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... (1,00 P.)**

- continue the flight referring to sufficient forecasts
- turn back due to sufficient visual meteorological conditions along the previous track
- continue the flight using radio navigational features along the track
- continue the flight using navigational aid by ATC

- 11 Two aircraft of the same type, same grossweight and same configuration fly at different airspeeds.**

**Which aircraft will cause more severe wake turbulence? (1,00 P.)**

- The aircraft flying at lower altitude.
- The aircraft flying at higher speed.
- The aircraft flying at higher altitude.
- The aircraft flying at slower speed.

- 12 With only a slight crosswind, what is the danger at take-off after the departure of a heavy aeroplane? (1,00 P.)**

- Wake turbulence rotate faster and higher.
- Wake turbulence is amplified and distorted.
- Wake turbulence twisting transverse to the runway.
- Wake turbulence on or near the runway.

- 13 Which area is suitable for an off-field landing? (1,00 P.)**

- Plowed field
- Glade with long dry grass
- Sports area in a village
- Harvested cornfield

- 14 A precautionary landing is a landing... (1,00 P.)**

- conducted with the flaps retracted.
- conducted without power from the engine.
- conducted in response to circumstances forcing the aircraft to land.
- conducted in an attempt to sustain flight safety.

**15 Which of the following landing areas is most suitable for an off-field landing? (1,00 P.)**

- A field with ripe waving crops
- A meadow without livestock
- A light brown field with short crops
- A lake with an undisturbed surface

**16 What are the effects of wet grass on the take-off and landing distance? (1,00 P.)**

- Decrease of the take-off distance and increase of the landing distance
- Increase of the take-off distance and increase of the landing distance
- Increase of the take-off distance and decrease of the landing distance
- Decrease of the take-off distance and decrease of the landing distance

**17 What negative impacts may be expected during circling overhead industrial facilities? (1,00 P.)**

- Health impairments by pollutants, reduced visibility and turbulences
- Strong electrostatic charging and deterioration in radio communication
- Very poor visibility of only few hundred meters and heavy precipitation
- Extended, strong downwind areas on the lee side of the facility

**18 Off-field landing may be prone to accident when... (1,00 P.)**

- the approach is conducted using distinct approach segments.
- the decision is made above minimum safe altitude.
- the approach is conducted onto a harvested corn field.
- the decision to land off-field is made too late.

**19 Collisions during circling within thermal updrafts can be avoided by... (1,00 P.)**

- alternate circling with opposite directions in different heights.
- imitating the movements of the preceeding gliding plane.
- coordination of plane movements with other aircrafts circling within the same updraft.
- fast approach into the updraft and rapidly pulling the elevator for slower speed.

**20 How can dangerous situations be prevented when the gliding plane approaches close to a pattern altitude during a cross-country flight? (1,00 P.)**

- Try to reach cumuclus clouds visible at the far horizon and use their thermal updrafts
- Despite the planned flight, decide for an off-field landing
- Maintain radio communication up to full stop after off-field landing
- Search for thermal updrafts on the lee side of a selected landing field

**21 When commencing a steep turn, what has to be considered by the pilot? (1,00 P.)**

- After achieving bank angle, reduce yaw using opposite rudder
- Commence turn with reduced speed according to aimed bank angle
- Commence turn with increased speed according to aimed bank angle
- After achieving bank angle, push the elevator to increase speed

**22 A gliding plane is about to pitch down due to stall.**

**What rudder input can prevent nose-dive and spin? (1,00 P.)**

- Ailerons neutral, rudder strongly kicked to lower wing
- Release elevator, rudder opposite to lower wing
- Keep airplane in level flight using rudder pedals
- Slightly pull the elevator, ailerons opposite to lower wing

**23 When airtowing using side-located latch, the gliding plane tends to... (1,00 P.)**

- show particularly stable flight characteristics.
- quickly turn around longitudinal axis.
- show enhanced pitch up moment.
- show enhanced turn to latch-mounted side.

**24 A gliding plane being airtowed gets into an excessive high position behind the towing plane.**

**What action by the glider pilot can prevent further danger for glider and towing plane? (1,00 P.)**

- Initiate a sideslip to reduce excessive height
- Pull strongly, thereafter decouple the cable
- Carefully extend spoiler flaps, steer glider back into normal position
- Push strongly to bring glider back to normal position

**25 In case of a cable break during winch launch, what actions should be taken in the correct order? (1,00 P.)**

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

**26 During initial winch launch, one wing of a glider plane gets ground contact.**

**What action should be taken by the glider pilot? (1,00 P.)**

- Pull the elevator
- Decouple cable immediately
- Rudder in opposite direction
  
- Ailerons in opposite direction

**27 During airtow, the gliding plane exceeds its maximum permissible speed.**

**What action should be taken by the glider pilot?  
(1,00 P.)**

- Extend spoiler flaps
- Message to airfield controller via radio
- Pull elevator to reduce speed
- Decouple cable immediately

**28 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?**

**(1,00 P.)**

- Decouple immediately and proceed with coupling unlatched
  
- Conduct normal approach, release cable immediately after ground contact
- Perform low approach and request information about cable length by airfield controller, decouple if necessary
- When in safe height, drop cable overhead empty terrain or overhead airfield

**29 During airtow, the towing plane disappears from the glider pilot's sight.**

**What action should be taken by the glider pilot? (1,00 P.)**

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



**30 During airtow, in a turn the glider plane gets into an outward off-set position.****What action should be taken by the glider pilot? (1,00 P.)**

- Return glider plane to a position behind towing plane by a smaller curve radius using strong inputs on rudder pedals
- Take up same bank angle as towing plane and return glider plane to a position behind towing plane using rudder pedals
- Bring back glider plane to intended turning attitude using rudder and ailerons, extend spoiler flaps to reduce speed
- Initiate sideslip and let glider plane be pushed back to a position behind towing plane by increased drag

**31 During a winch launch, just after stabilizing full climb attitude, the pull on cable suddenly stops.****What action should be taken by the glider pilot? (1,00 P.)**

- Push slightly, wait for pull on cable to be re-established
- Inform winch driver by alternate aileron input
- Push firmly and decouple cable immediately
- Pull on elevator to increase cable tension

**32 Before the launch using a parallel-cable winch, the glider pilot realizes the second cable laying close to his glider about to launch.****What actions should be taken by the glider pilot?  
(1,00 P.)**

- Keep an eye on second cable, decouple after takeoff if necessary
- Continue launch with rudder input on opposite direction to second cable
- Conduct normal takeoff, inform airfield controller after landing
- Decouple cable immediately, inform airfield controller via radio

**33 What is the purpose of the breaking points on a winch cable?  
(1,00 P.)**

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

- 34 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? (1,00 P.)**

- A higher altitude can be reached using this technique
- Extreme stress on the structure of the glider plane
- This technique can compensate for insufficient wind correction
- Only by this sudden jerk the release of the cable can be assured

- 35 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? (1,00 P.)**

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

- 36 During a high altitude flight (6000 m MSL), the glider pilot realizes that oxygen will be consumed within a few minutes.**

**What actions should be taken by the glider pilot? (1,00 P.)**

- After depletion of oxygen, stay at that altitude no longer than 30 min
- At first indication of hypoxia, commence descent with maximum allowed speed
- Extend spoiler flaps, descent with maximum permissable speed
- Reduce oxygen flow by breathing slowly

- 37 What color has the emergency hood release handle? (1,00 P.)**

- Green
- Red
- Yellow
- Blue

- 38 Trim masses or lead plates must be secured firmly when installed into a gliding plane, so that... (1,00 P.)**

- the maximum allowed mass will not be exceeded.
- a comfortable seat position will be assured for the glider pilot.
- they will not block rudders or induce any C.G. shift.
- the glider pilot will not be hurt during flight in thermal turbulences.

**39 During a winch launch, after reaching full climb attitude, the airspeed indicator fails.****What action should be taken by the glider pilot? (1,00 P.)**

- Continue launch to normal altitude, use horizontal image and airstream noise to conduct flight as planned
- Try to re-establish airspeed indication by abrupt changes of speed during launch
- Push elevator, decouple cable and perform short pattern with minimum speed
- Continue launch to normal altitude, use horizontal image and airstream noise for pattern and landing right away

**40 Why is it not allowed to launch with the C.G. positioned beyond the aft limit? (1,00 P.)**

- Because rudder inputs may not be sufficient for controlling flight attitude
- Because increased nose-down moment may not be compensated
- Because structural limits may be exceeded
- Because maximum permissible speed will be reduced significantly

**41 What has to be expected with ice accretion on wings? (1,00 P.)**

- An increased stall speed
- A decreased stall speed
- Improved slow flight capabilities
- Reduced friction drag

**42 Despite several attempts, the landing gear can be extended, but not locked.****How should the landing be conducted? (1,00 P.)**

- Keep gear unlocked and perform normal landing
- Keep a firm grip on gear handle during normal landing
- Retract landing gear and perform belly landing with minimum speed
- Retract gear and perform belly landing with increased speed

**43 When flying into heavy snowfall, most dangerous will be the... (1,00 P.)**

- sudden blockage of pitot-static system.
- sudden increase of airframe icing.
- sudden increase in airplane mass.
- sudden loss of visibility.

**44 An off-field landing with tailwind is inevitable.****How should the landing be conducted? (1,00 P.)**

- Approach with reduced speed, expect shorter flare and ground roll distance
- Normal approach, when reaching landing site, extend spoiler flaps and push down elevator
- Approach with normal speed, expect longer flare and ground roll distance
- Approach with increased speed without use of spoiler flaps

**45 When landing with tailwind, the pilot has to... (1,00 P.)**

- approach with normal speed and shallow angle.
- compensate tailwind by sideslip.
- increase approach speed.
- land with gear retracted to shorten ground roll distance.

**46 During approach, tower provides the following information: "Wind 15 knots, gusts 25 knots".****How should the landing be performed? (1,00 P.)**

- Approach with minimum speed, correct changes in attitude with careful rudder inputs
- Approach with normal speed, maintain speed using spoiler flaps
- Approach with increased speed, correct changes in attitude with firm rudder inputs
- Approach with increased speed, avoid usage of spoiler flaps

**47 When a pilot gets into a strong downwind area during slope soaring, what action should be recommended? (1,00 P.)**

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

- 48 A plane flying below an extended Cumulus cloud developing into a thunderstorm, the glider plane quickly approaches the cloud base.**

**What actions have to be taken by the glider pilot? (1,00 P.)**

- Extend spoiler flaps within speed limits, leave thermal lift area with maximum permissible speed
- Fasten seat belts, be aware of severe gust during further thermaling
- Reduce to minimum speed, leave thermal lift area in a flat turn
- Climb into thunderstorm cloud, continue flight using instruments

- 49 After landing, you realize you lost your pen which might have fallen down in the cockpit of the sailplane.**

**What has to be considered?  
(1,00 P.)**

- Lighter, loose bodies in the fuselage can be considered uncritical.
- Before next take-off, the cockpit has to be firmly inspected for loose bodies.
- A flight without a pen at hand is not permitted.
- Succeeding pilots have to be informed about that.

- 50 During flight close to aerodrome in about 250 m AGL you encounter strong descent and go for a safety landing.**

**What speed should be flown when heading towards the airfield? (1,00 P.)**

- Best glide speed plus additional for downdrafts and wind
- Best glide speed
- Minimum rate of descent speed
- Maximum manoeuvring speed VA

- 51 During approach for landing with strong crosswind, how should the turn from base to final be flown? (1,00 P.)**

- Turn with maximum 60° bank, carefully watch speed and yaw string, track correction after overshoot.
- Maximum 30° bank, use rudder to early align sailplane with final track.
- Maximum 60° bank, use rudder to early align sailplane with final track.
- Turn with maximum 30° bank, carefully watch speed and yaw string, track correction after overshoot.

**52 During final approach, you realize that you missed to extend the gear.****How should the landing be conducted? (1,00 P.)**

- You land without gear, and carefully touch down with minimum speed.
- You extend the gear immediately and land as usual.
- You retract flaps, extend the gear and land as usual.
- You land without gear with higher than usual speed.

**53 During thermal soaring, another sailplane is following close by.****What should be done to avoid a collision?  
(1,00 P.)**

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

**54 What heights should be considered for landing phases with a glider plane? (1,00 P.)**

- 100 m abeam threshold and 50 m after final approach turn
- 300 m abeam threshold and 150 m in final approach
- 500 m abeam threshold and 50 m after final approach turn
- 150 - 200 m abeam threshold and 100 m after final approach turn

**55 After reaching what height during winch launch the maximum pitch position can be taken? (1,00 P.)**

- From approx. 50 m while maintaining a safe speed for winch launch.
- From 15 m while reaching a speed of at least 90 km/h
- From 150 m or higher, when in case of cable break landing straight ahead is no longer possible
- Shortly after lift-off, provided a sufficiently strong headwind

**56 How should a glider plane be parked when observing strong winds? (1,00 P.)**

- Nose into the wind, keep and weigh tail down
- Nose into the wind, extends air brakes, secure rudders
- Downwind wing on the ground, weigh wing down, secure rudders
- Windward wing on the ground, weigh wing down, secure rudders

**57 What has to be considered for the speed during approach and landing? (1,00 P.)**

- Wind speed and weight
- Altitude and weight
- Wind speed and Altitude
- Weight and wind speed

**58 How can you determine wind direction in case of an outlanding? (1,00 P.)**

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

**59 What landing technique is recommended for landing on a down-hill gras area? (1,00 P.)**

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

**60 What has to be checked before any change in direction during glide? (1,00 P.)**

- Check for turn to be flown coordinated
- Check for thermal clouds
- Check for loose object secured
- Check for free airspace in desired direction

**61 What has to be considers when overflying mountain ridges? (1,00 P.)**

- Turbulences, reduce to minimum speed
- Do not overfly national parks
- Turbulences, therefore slightly increase speed
- Use circling birds to find thermal cells

**62 What is indicated by "buffeting" noticable at elevator stick? (1,00 P.)**

- C.G. position too far ahead
- Glider plane very dirty
- too slow, wing airflow stalled
- too fast, turbulence bubbles hitting on aileron

**63 Before a winch launch, you detect a light tailwind.****What has to be considered? (1,00 P.)**

- Roll until lift-off will take a little longer, watch speed
- A weaker rated-brake-point can be used, load will be smaller
- Roll until lift-off will be shorter since tailwind is pushing from behind
- To reach more height, full pull on the elevator after lift-off

**64 When has a pre-flight check to be done? (1,00 P.)**

- Before first flight of the day, and after every change of pilot
- After every build-up of the airplane
- Once a month, with TMG once a day
- Before flight operation and before every flight