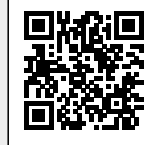


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NOME ALLIEVO:

DATA & ORA:

**01. What is an appropriate reaction when a passenger during cruise flight suddenly feels uncomfortable?**

- a) Adjust cabin temperature and prevent excessive bank
- b) Give additional oxygen and avoid low load factors
- c) Avoid conversation and choose a higher airspeed
- d) Switch on the heater blower and provide thermal blankets

**02. What is the lowest possible VFR flight level if a true course of 181° is selected and a variation of 3° east exists?**

- a) FL 050
- b) FL 060
- c) FL 055
- d) FL 065

**03. What is the correct designation of the frequency band from 118.000 to 136.975 MHz used for voice communication?**

- a) LF
- b) VHF
- c) MF
- d) HF

**04. Given: TC: 183°; WCA: +011°; MH: 198°; CH: 200° What are the TH and the DEV?**

- a) TH: 172°. DEV: +002°
- b) TH: 172°. DEV: -002°
- c) TH: 194°. DEV: -002°.
- d) TH: 194°. DEV: +002°.

**05. The static pressure of gases work...**

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

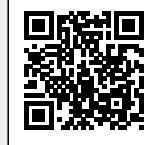
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## 06. How should departures near villages be carried out?

---

- a) Slow with a low propeller rotation speed
- b) Low and fast between the villages
- c) Climb and changes in direction should be done as slow as possible
- d) Villages should be circumnavigated and crossed in a sufficient altitude

## 07. An inversion is a layer ...

---

- a) With increasing pressure with increasing height.
- b) With decreasing temperature with increasing height.
- c) With constant temperature with increasing height.
- d) With increasing temperature with increasing height.

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

---

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

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

---

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

## 10. 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?

---

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

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**11. For the purpose of a flight preparation, the pilot calculates a total take-off mass of 750 kg and a total moment of 625 mmkg. Which cross marks the center of gravity (CG)? See annex (PFP-003) (1,00 P.) Siehe Anlage 3**

---

- a) 4
- b) 2
- c) 1
- d) 3

**12. What pressure pattern can be observed during the passage of a polar front low?**

---

- a) Rising pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- b) Falling pressure in front of the warm front, constant pressure within the warm sector, rising pressure behind the cold front
- c) Falling pressure in front of the warm front, constant pressure within the warm sector, falling pressure behind the cold front
- d) Rising pressure in front of the warm front, rising pressure within the warm sector, falling pressure behind the cold front

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

---

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

**14. Vienna (LOWW) is located at 016° 34'E, Salzburg (LOWS) at 013° 00'E. The latitude of both positions can be considered as equal. What is the difference of sunrise and sunset times, expressed in UTC, between Wien and Salzburg?**

---

- a) In Vienna the sunrise and sunset are about 14 minutes earlier than in Salzburg
- b) In Vienna the sunrise is 14 minutes earlier and sunset is 14 minutes later than in Salzburg
- c) In Vienna the sunrise and sunset are about 4 minutes later than in Salzburg
- d) In Vienna the sunrise is 4 minutes later and sunset is 4 minutes earlier than in Salzburg

**15. Which colour does Avgas 100 LL have?**

---

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

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---

**16. What pressure pattern can be observed at a lift-generating wing profile at positive angle of attack?**

---

- a) Low pressure is created above, higher pressure below the profile
- b) High pressure is created above, lower pressure below the profile
- c) Pressure above remains unchanged, higher pressure is created below the profile
- d) Pressure below remains unchanged, lower pressure is created above the profile

---

**17. Given: QDM: 138° VAR: 10° E The QUJ equals...**

---

- a) 168°
- b) 318°.
- c) 328°.
- d) 148°.

---

**18. In what cases is visibility transmitted in kilometers?**

---

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

---

**19. What should be considered regarding a scheduled flight over water, when land cannot be reached in case of an emergency landing?**

---

- a) Transponder code 7600 has to be set during the whole flight
- b) Contact to the nearest ATC shall consist during the whole flight
- c) For all passengers there must be life jackets or lifeboats present
- d) The flight plan has to contain the exact waypoints

---

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

---

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

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**21. What is the correct way of acknowledging the instruction "DZF after lift-off climb straight ahead until 2500 feet before turning right heading 220 degrees, wind 090 degrees, 5 knots, runway 12, cleared for take-off"?**

- a) DZF after lift-off climb straight ahead 2500 feet, wilco, heading 220 degrees, 090 degrees, 5 knots, cleared for take-off
- b) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, runway 12, cleared for take-off
- c) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots
- d) DZF after lift-off climb straight ahead 2500 feet, then turn right heading 220, 090 degrees, 5 knots, cleared for take-off

**22. Which constructive feature has the purpose to reduce steering forces?**

- a) T-tail
- b) Vortex generators
- c) Differential aileron deflection
- d) Aerodynamic rudder balance

**23. The aircraft is on radial... See annex (NAV-024) (1,00 P.) Siehe Anlage 8**

- a) 066°.
- b) 234°.
- c) 060°.
- d) 246°.

**24. An aircraft is following a true course (TC) of 040° at a constant true airspeed (TAS) of 180 kt. The wind vector is 350°/30 kt. The groundspeed (GS) equals...**

- a) 172 kt
- b) 159 kt.
- c) 155 kt.
- d) 168 kt.

**25. What is the best combination of traits with respect to the individual attitude and behaviour for a pilot?**

- a) Introverted - unstable
- b) Introverted - stable
- c) Extroverted - unstable
- d) Extroverted - stable

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**26. Which of the items below may have an influence on the noise perceived by a person on the ground? 1) Engine power setting 2) Propeller revolutions per minute 3) Position of the landing gear 4) Flap position 5) Flight track 6) Height above ground 7) Flight rules**

---

- a) 1, 2, 3, 4, 5, 6
- b) 1, 5, 6
- c) 1, 5, 6, 7
- d) 3, 4, 5, 6, 7

**27. What does a readability of 2 indicate?**

---

- a) The transmission is readable now and then
- b) The transmission is readable but with difficulty
- c) The transmission is perfectly readable
- d) The transmission is unreadable

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

---

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

**29. The barometric altimeter with QFE setting indicates...**

---

- a) Height above the pressure level at airfield elevation.
- b) True altitude above MSL.
- c) Height above MSL.
- d) Height above standard pressure 1013.25 hPa

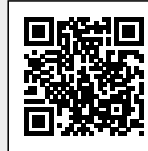
**30. During an approach the aeroplane experiences a windshear with a decreasing tailwind. If the pilot does not make any corrections, how do the approach path and the indicated airspeed (IAS) change?**

---

- a) Path is higher, IAS decreases
- b) Path is higher, IAS increases
- c) Path is lower, IAS decreases
- d) Path is lower, IAS increases

# Simulazione di Esame

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

---

- 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 the highest elevation within 10 km
- d) Altitude in relation to mean sea level

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

---

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

## 33. A precautionary landing is a landing...

---

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

## 34. What types of boundary layers can be found on an aerofoil?

---

- a) Laminar layer at the leading wing areas, turbulent boundary layer at the trailing areas
- b) Turbulent boundary layer along the complete upper surface with separated airflow
- c) Turbulent layer at the leading wing areas, laminar boundary layer at the trailing areas
- d) Laminar boundary layer along the complete upper surface with non-separated airflow

## 35. After a precautionary landing the brakes and wheels are very hot. In which way should the pilot approach them?

---

- a) From the right or left side
- b) At an angle of 45°
- c) From the front or back side
- d) From the front, right or left side

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## 36. How does air temperatur change in ISA from MSL to approx. 10.000 m height?

---

- a) From +20° to -40°C
- b) From +30° to -40°C
- c) From -15° to 50°C
- d) From +15° to -50°C

## 37. How can the pilot of an an engine-driven aircraft minimise the noise emission during descent and approach?

---

- a) How can the pilot of an an engine-driven aircraft minimise the noise emission during descent and approach?
- b) Descent and approach in landing configuration while maintaining a descent angle of 3°, direct approach whenever possible
- c) Low approach with minimum power setting, late configuration and steep approach, adherence to established arrival routes
- d) High approach with minimum power setting, late descent, late configuration, adherence to established arrival routes

## 38. A pilot wants to take off on runway 36, the reported wind is 240 degrees 12 knots. What are the wind components acting on the aircraft on take-off and landing?

---

- a) Crosswind from the right 10.4 kt. Tailwind 6 kt.
- b) Crosswind from the right 6 kt. Headwind 10.4 kt.
- c) Crosswind from the left 10.4 kt. Tailwind 6 kt.
- d) Crosswind from the left 6 kt. Tailwind 10.4 kt.

## 39. VOR radials are defined based on the principle of...

---

- a) Phase comparison of two signals.
- b) Frequency comparison of two signals.
- c) Pulse comparison of two signals
- d) Amplitude comparison of two signals.

## 40. What process causes latent heat being released into the upper troposphere?

---

- a) Descending air across widespread areas
- b) Stabilisation of inflowing air masses
- c) Cloud forming due to condensation
- d) Evaporation over widespread water areas



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## 41. Mountain side updrafts can be intensified by ...

---

- a) Solar irradiation on the windward side
- b) Solar irradiation on the lee side
- c) By warming of upper atmospheric layers
- d) Thermal radiation of the windward side during the night

## 42. Which area could be crossed with certain restrictions?

---

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

## 43. When air masses meet each other head on, how is this referred to and what air movements will follow?

---

- a) Convergence resulting in sinking air
- b) Divergence resulting in sinking air
- c) Convergence resulting in air being lifted
- d) Divergence resulting in air being lifted

## 44. What is the meaning of a flashing green light signal at a controlled aerodrome directed to an aircraft in flight?

---

- a) Return for landing, followed by steady green at the appropriate time
- b) Cleared to land
- c) Give way to other aircraft and continue circling
- d) Airport unsafe, do not land

## 45. What does the abbreviation "FIS" stand for?

---

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

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**46. Given the following information, what is the aircraft position at the cross bearing? VOR Hamburg (HAM) (53°41'N, 010°12'E): Radial 119° VOR Brünkendorf (BKD) (53°02'N, 011°33'E): Radial 320° See annex (NAV-031) (1,00 P.) Siehe Anlage 3**

---

- a) 52°20'N, 10°10'E
- b) 54°40'N, 12°50'E
- c) 54°40'N, 12°50'E
- d) 53°20'N, 11°10'E

**47. When extending the flaps for landing at constant angle of attack, in which way does the lift coefficient change far before reaching the maximum lift coefficient?**

---

- a) It decreases
- b) It is not possible to define
- c) It increases
- d) It remains constant

**48. A risk factor for decompression sickness is...**

---

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

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

---

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

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

---

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

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**51. At higher altitudes, true airspeed (TAS) tends to be higher than calibrated airspeed (CAS). A rough estimate of the TAS can be obtained by...**

---

- a) Subtracting 2 % of the CAS for every 1000 ft altitude.
- b) Adding 10 % of the CAS for every 1000 ft altitude.
- c) Subtracting 10 % of the CAS for every 1000 m altitude.
- d) Adding 2 % of the CAS for every 1000 ft altitude.

**52. In case of an emergency ditching, the life vests have to be inflated...**

---

- a) Before disembarking the aircraft.
- b) During disembarking the aircraft
- c) After disembarking the aircraft at a safe distance of about 10 m.
- d) After disembarking the aircraft

**53. Which transponder code has to be set unrequested during an emergency?**

---

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

**54. A light aircraft intends to land behind a commercial airliner belonging to wake turbulence category "medium" or "heavy" on a long runway. How can the wake turbulence of the commercial aircraft be avoided?**

---

- a) By making a steep approach and a long landing, touching down behind the touchdown point of the airliner's nose gear
- b) By making a steep approach and a very short landing. The light aircraft should be able to stop before reaching the airliner's touchdown point
- c) By making a shallow approach and a long landing, touching down behind the touchdown point of the airliner's nose gear
- d) By making a shallow approach and a very short landing. The light aircraft should be able to stop before reaching the airliner's touchdown point

**55. What is the approximate speed of electromagnetic wave propagation?**

---

- a) 123000 m/s
- b) 300000 km/s
- c) 123000 km/s
- d) 300000 m/s

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**56. The symbol labeled (3) as shown in the picture is a / an... See figure (MET-005) (1,00 P.) Siehe Anlage 4**

---

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

**57. In comparison to the true airspeed in still air conditions, the TAS in a strong tailwind will be...**

---

- a) The same for maximum range
- b) Significantly lower for maximum endurance
- c) Slightly lower for maximum range
- d) Slightly higher for maximum endurance

**58. A single-engine piston and a turboprop aeroplane are approaching each other opposite at the same altitude. Which aeroplane has to change its track to avoid a collision?**

---

- a) The turboprop aircraft has to give way to the single-engine piston aircraft
- b) Both aircraft have to alter their tracks to the left
- c) Both aircraft have to alter their tracks to the right
- d) The single-engine piston aircraft has to give way to the turboprop aircraft

**59. During a stall, the lift...**

---

- a) During a stall, the lift...
- b) Increases and drag decreases.
- c) Increases and drag increases.
- d) Decreases and drag decreases.

**60. The progress of an electromagnetic oscillation can be described by the...**

---

- a) Phase angle
- b) Amplitude angle.
- c) Wave angle.
- d) Frequency angle.

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**61. What is the minimum flight visibility in airspace "E" for an aircraft operating under VFR at FL75?**

---

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

**62. Regularity messages are messages...**

---

- a) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight.
- b) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance.
- c) Sent by an aircraft operating agency or an aircraft of immediate concern to an aircraft in flight
- d) Concerning the operation or maintenance of facilities essential for the safety or regularity of aircraft operation

**63. The term QTE means...**

---

- a) Magnetic bearing from the station to the aircraft.
- b) Magnetic bearing from the aircraft to the station
- c) True bearing from the station to the aircraft.
- d) True bearing from the aircraft to the station.

**64. The ratio of span and mean chord length is referred to as...**

---

- a) Trapezium shape.
- b) Tapering
- c) Aspect ratio.
- d) Wing sweep.

**65. What is the true airspeed (TAS) [kt] and fuel consumption [l/h] for cruise flight with 60 % power in flight level 60 under the following conditions? Temperature: ISA - 20° C QNH: 980 hPa See annex (PFP-012) (2,00 P.) Siehe Anlage 10**

---

- a) 96 kt. 19.1 l/h.
- b) 95 kt. 19.6 l/h.
- c) 110 kt. 25.1 l/h.
- d) 95,75 kt. 19.8 l/h.

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**66. The angle between compass north and magnetic north is called...**

---

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

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

---

- a) Stress can occur if there seems to be no solution for a given problem
- b) Training and experience have no influence on the occurrence of stress
- c) Stress and its different symptoms are irrelevant for flight safety
- d) Everybody reacts to stress in the same manner

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

---

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

**69. Which of the following states the working principle of an airspeed indicator?**

---

- a) Total air pressure is measured and compared against static air pressure.
- b) Total air pressure is measured by the static ports and converted into a speed indication by the airspeed indicator
- c) Dynamic air pressure is measured by the Pitot tube and converted into a speed indication by the airspeed indicator
- d) Static air pressure is measured and compared against a vacuum

**70. Non-directional beacons (NDBs) transmit within which frequency band?**

---

- a) Very low frequency (VLF) and low frequency (LF)
- b) Low frequency (LF) and medium frequency (MF)
- c) High frequency (HF)
- d) Very high frequency (VHF)

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## Schema Risposte

Confronta le risposte fornite con il seguente schema e segna il tuo punteggio!

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