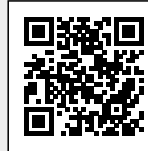


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NOME ALLIEVO:

DATA & ORA:

01. When increasing the airflow speed by a factor of 2 while keeping all other parameters constant, how does the parasite drag change approximately?

- a) It decreases by a factor of 2
- b) It increases by a factor of 2
- c) It decreases by a factor of 4
- d) It increases by a factor of 4

02. The change in pitch at a propeller blade from the root to the tip ensures...

- a) That the most thrust is produced at the blade tip
- b) That the most thrust is produced at the blade root
- c) A nearly constant load by a constant effective angle of attack over the entire length of the blade.
- d) The largest possible angle of attack at the blade tip

03. Which answer states a risk factor for diabetes?

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

04. Radio waves within the LF and MF range (e.g. NDB) travel as...

- a) Sky wave.
- b) Sky wave and as ground / surface wave
- c) Ground / surface wave.
- d) Space wave (quasi-optical).

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

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

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06. Above the friction layer, with a prevailing pressure gradient, the wind direction is...

- a) Perpendicular to the isohypses
- b) At an angle of 30° to the isobars towards low pressure.
- c) Parallel to the isobars.
- d) Perpendicular to the isobars.

07. How can wind speed and wind direction be derived from surface weather charts?

- a) By alignment and distance of isobaric lines
- b) By alignment and distance of hypsometric lines
- c) By alignment of lines of warm- and cold fronts.
- d) By annotations from the text part of the chart

08. An aerodrome beacon (ABN) is a...

- a) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the ground.
- b) Rotating beacon installed at the beginning of the final approach to indicate its location to aircraft pilots from the air.
- c) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.
- d) Fixed beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.

09. Under what conditions may class D airspace be entered with a radio failure?

- a) Approval has been granted before
- b) There are other aircraft in the aerodrome circuit
- c) It is the aerodrome of departure
- d) It is the destination aerodrome

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

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

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11. At which point in the diagram will a pilot find himself to be overstrained? See figure (HPL-002) P = Performance A = Arousal / Stress Siehe Anlage 1

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

12. Electronic devices on board of an aeroplane have influence on the...

- a) Turn coordinator
- b) Airspeed indicator.
- c) Artificial horizon.
- d) Direct reading compass

13. A flight plan has been filed for a flight departing at an uncontrolled aerodrome. When has the actual take-off time been transmitted to ATC?

- a) Upon request from ATC.
- b) When landing is assured
- c) Immediately after take-off.
- d) At deviation from expected off-block time by more than 15 min.

14. Which of the following options does NOT stimulate motion sickness (disorientation)?

- a) Head movements during turns
- b) Flying under the influence of alcohol
- c) Non-accelerated straight and level flight
- d) Turbulence in level flight

15. The on-board equipment of the secondary surveillance radar (SSR) is called...

- a) Course indicator.
- b) Transponder.
- c) Interrogator
- d) Decoder

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16. An acceleration during a straight horizontal flight can lead to the illusion of...

- a) A descent.
- b) A climb.
- c) An inverted flight.
- d) A bank.

17. What does the abbreviation "QUJ" stand for?

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

18. What should be observed when taxiing behind a commercial airliner?

- a) To avoid wake turbulence, a minimum distance of 700 m should be maintained
- b) To avoid the jet blast, a minimum distance of 600 m should be maintained
- c) To avoid wake turbulence, a minimum distance of 300 m should be maintained
- d) To avoid the jet blast, a minimum distance of 200 m should be maintained

19. Which point on the aerofoil is represented by number 1? See figure (PFA-009) (1,00 P.) Siehe Anlage 2

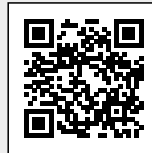
- a) Transition point
- b) Stagnation point
- c) Center of pressure
- d) Separation point

20. Two aeroplanes are flying on crossing tracks. Which one has to divert?

- a) The aircraft which flies from left to right has the right of priority
- b) Both have to divert to the right
- c) The aircraft which flies from right to left has the right of priority
- d) Both have to divert to the left

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21. Which parts of an aircraft mainly affect the generation of induced drag?

- a) The front part of the fuselage.
- b) The wing tips
- c) The lower part of the gear.
- d) The outer part of the ailerons

22. Which part of the cycle of a four-stroke Otto engine can be seen in the attachment? See figure (AGK-008) (1,00 P.) Siehe Anlage 6

- a) Second stroke - compression
- b) Third stroke - power
- c) Fourth stroke - exhaust
- d) First stroke - induction

23. What is a latent error?

- a) An error which is made by the pilot actively and consciously
- b) An error which only has consequences after landing
- c) An error which remains undetected in the system for a long time
- d) An error which has an immediate effect on the controls

24. The highest absorbtion of humidity in fuel can be observed in which situation?

- a) During parking on wet gras areas
- b) During parking on cold aprons
- c) Almost empty tanks
- d) Almost full tanks

25. What is the meaning of the abbreviation "TRA"? (

- a) Temporary Reserved Airspace
- b) Temporary Radar Routing Area
- c) Transponder Area
- d) Terminal Area

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

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

27. Given: True course: 270°. TAS: 100 kt. Wind: 090°/25 kt. Distance: 100 NM. The flight time equals...

- a) 62 Min
- b) 37 Min.
- c) 48 Min.
- d) 84 Min

28. What is the minimum age to start a private pilot training at a flight school?

- a) 16 years
- b) 17 years
- c) 21 years
- d) 18 years

29. What is the meaning of the phrase "Correction"?

- a) Permission for proposed action is granted
- b) An error has been made in this transmission. The correct version is...
- c) I have received all of your last transmission
- d) I understand your message and will comply with it

30. Distress messages are messages...

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

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31. The term "runway" is defined as a...

- a) Round area on an aerodrome prepared for the landing and take-off of aircraft
- c) Rectangular area on a land or water aerodrome prepared for the landing and take-off of aircraft.
- d) Rectangular area on a land aerodrome prepared for the landing and take-off of helicopters.

32. Which gas is most dangerous during an engine fire?

- a) Carbon monoxide
- b) Nitrogen
- c) Oxygen
- d) Carbon dioxide

33. What does a readability of 1 indicate?

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

34. An ATIS is valid for...

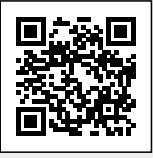
- a) 10 minutes
- b) 45 minutes.
- c) 60 minutes.
- d) 30 minutes

35. During a flight with a flight plan submitted, landing is conducted at an airfield other than the destination stated in the filed flight plan. Who has to be contacted by the pilot immediately?

- a) Local office for aerial supervision
- b) The flight manager on duty
- c) Aeronautical Information Service (AIS).
- d) The police department.

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36. The altimeter is switched from local QNH to 1013.25 hPa...

- a) At the decision height.
- b) At 4000 ft
- c) When climbing above the transition altitude.
- d) When descending below FL 100

37. How does a laminar boundary layer differ from a turbulent boundary layer?

- a) The laminar boundary layer produces lift, the turbulent boundary layer produces drag
- b) The turbulent boundary layer is thicker and provides less skin-friction drag
- c) The laminar boundary layer is thinner and provides more skin-friction drag
- d) The turbulent boundary layer can follow the airfoil camber at higher angles of attack

38. A landing conducted in response to circumstances forcing the aircraft to land is a / an...

- a) Precautionary landing.
- b) Urgent landing.
- c) Emergency landing
- d) Field or out landing

39. A turn and bank (or turn and slip) coordinator provides information regarding...

- a) The coordination of the turn and slip angle.
- b) The rate of turn and coordination, i.e. slip or skid, of the turn.
- c) The pitch and bank angle of the aircraft.
- d) The rate of turn and bank angle of the aircraft

40. The term "datum" with regard to a mass and balance calculation defines...

- a) The point on the lateral axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- b) The point on the vertical axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- c) The point on the longitudinal axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- d) The distance from the reference plane to the center of gravity of an aircraft.

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

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

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

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

43. The altimeter has to be set to what value in order to show zero on ground?

- a) QNH
- b) QNE
- c) QTE
- d) QFE

44. What danger is most imminent when an aircraft is hit by lightning?

- a) Rapid cabin depressurization and smoke in the cabin
- b) Surface overheat and damage to exposed aircraft parts
- c) Explosion of electrical equipment in the cockpit
- d) Disturbed radio communication, static noise signals

45. The position of the center of gravity equals... See figure (PFP-052e) (1,00 P.) Siehe Anlage 1

- a) 147.5 in.
- b) 145.7 in.
- c) 142 in.
- d) 137.5 in

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46. What has to be considered during refueling?

- a) Check the fuel content of the tank with a torch and remove fire protection
- b) No open fires, obey smoking ban and apply ground cables
- c) Refuel through a soaked rag and keep a fire extinguisher available
- d) Apply ground wires, turn on the main switch and magneto ignition

47. What information can be obtained from satellite images?

- a) Temperature and dew point of environmental air
- b) Turbulence and icing
- c) Flight visibility, ground visibility, and ground contact
- d) Overview of cloud covers and front lines

48. Under which circumstances may a runway be considered to be contaminated?

- a) When more than 25 % of the runway surface area within the required length and width being used is covered by water, slush, snow or ice more than 3 mm deep
- b) When 75 % of the required runway length and width are covered by contaminants such as snow, frost, ice or sand
- c) When more than 50 % of the runway surface area within the required length and width being used is covered by water, slush, snow or ice more than 3 mm deep
- d) When more than 50 % of the required runway length and width are covered by contaminants such as snow, frost, ice or sand

49. The term 'True Course' (TC) is defined as...

- a) The angle between magnetic north and the course line.
- b) The direction from an arbitrary point on Earth to the geographic North Pole.
- c) The angle between true north and the course line
- d) The direction from an arbitrary point on Earth to the magnetic north pole

50. In which way does the position of the center of pressure move at a positively shaped profile with increasing angle of attack?

- a) It moves backward until reaching the critical angle of attack
- b) It moves forward first, then backward
- c) It moves forward until reaching the critical angle of attack
- d) It moves to the wing tips

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51. What is the purpose of the semi-circular rule?

- a) To avoid collisions by reducing the probability of opposing traffic at the same altitude
- b) To fly without a filed flight plan in prescribed zones published in the AIP
- c) To allow safe climbing or descending in a holding pattern
- d) To avoid collisions by suspending turning manoeuvres

52. What is the purpose of the signal square at an aerodrome?

- a) It contains special symbols to indicate the conditions at the aerodrome visually to over-flying aircraft
- b) It is an illuminated area on which search and rescue and fire fighting vehicles are placed
- 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

53. 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

54. The angle between the true course and the true heading is called...

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

55. A pilot can contact FIS (flight information service)...

- a) Via telephone.
- b) Via internet.
- c) By a personal visit.
- d) Via radio communication.

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56. Where are the two polar circles?

- a) At a latitude of 20.5°S and 20.5°N
- b) 23.5° north and south of the poles
- c) 23.5° north and south of the equator
- d) 20.5° south of the poles

57. Two engine-driven aircraft are flying on crossing courses at the same altitude. Which one has to divert?

- a) The lighter one has to climb
- b) Both have to divert to the right
- c) The heavier one has to climb
- d) Both have to divert to the left

58. Which are the different parts of the Aeronautical Information Publication (AIP)?

- a) GEN MET RAC
- b) GEN COM MET
- c) GEN AGA COM
- d) GEN ENR AD

59. The VFR semicircular rules are based on the...

- a) True course (TC).
- b) Magnetic heading (MH)
- c) Magnetic course (MC).
- d) True heading (TH).

60. What leads to a decreased stall speed V_s (IAS)?

- a) Lower altitude
- b) Lower density
- c) Higher load factor
- d) Decreasing weight

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61. What is the meaning of the abbreviation "AIREP"?

- a) Aircraft report
- b) Aeronautical instrument requirement report
- c) Automatic identification report
- d) Aeronautical information report

62. Two aircraft of the same type, same grossweight and same configuration fly at different airspeeds. Which aircraft will cause more severe wake turbulence?

- a) The aircraft flying at lower altitude.
- b) The aircraft flying at slower speed.
- c) The aircraft flying at higher speed.
- d) The aircraft flying at higher altitude.

63. 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

64. In motorplanes the stall warning is usually activated by a change of...

- a) The center of gravity
- b) The transition point.
- c) The center of pressure
- d) The center of pressure

65. What behaviour is shown by a rotating gyro in space?

- a) It moves in accordance with the body surrounding it
- b) It tends to maintain its position in space
- c) It swings from east to west like a pendulum
- d) It moves in circles with a steadily decreasing radius

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66. What is the meaning of the illustrated ground signal as shown in the signal area of an aerodrome? See figure (ALW-012) Siehe Anlage 4

- a) Caution, manoeuvring area is poor
- b) Prohibition on landing for a longer period
- c) After take-off and before landing all turns have to be made to the right
- d) Ground movement restricted to hard surfaces

67. Calculated take-off mass = 2300 lbs, calculated CG = 95.75 in, fuel burn = 170 lbs on station 87.00 in. Where is the CG situated after the landing?

- a) 97.39 in
- b) 96.45 in
- c) 94.11 in
- d) 96.57 in

68. A gyro which is rotating in space responds to forces being applied to it by an evasive movement...

- a) At an angle of 45° to the force being applied.
- b) In a northern direction.
- c) At an angle of 90° to the force being applied.
- d) At an angle of 180° to the force being applied

69. What is the major task of a carburettor?

- a) To pump fuel from the tanks into the cylinder
- b) To control the aircraft's speed through the throttle valve
- c) To provide additional fuel to cool the engine
- d) To produce an ignitable air/fuel mixture

70. The center of pressure is the theoretical point of origin of...

- a) Only the resulting total drag.
- b) All aerodynamic forces of the profile
- c) Gravity forces of the profile
- d) Gravity and aerodynamic forces

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Schema Risposte

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

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