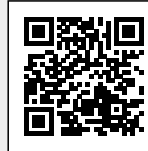


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STUDENT NAME:

DATE AND TIME:

01. What weather is likely to be experienced during "Foehn" in the Bavarian area close to the alps?

- a) Cold, humid downhill wind on the lee side of the alps, flat pressure pattern
- b) Nimbostratus cloud in the southern alps, rotor clouds at the lee side, warm and dry wind
- c) High pressure area overhead Biscay and low pressure area in Eastern Europe
- d) Nimbostratus cloud in the northern alps, rotor clouds at the windward side, warm and dry wind

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

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

03. How can you determine wind direction in case of an outlanding?

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

04. What is the meaning of the abbreviation "ARC"?

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

05. What is the function of the red blood cells (erythrocytes)?

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

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06. When using a GPS for tracking to the next waypoint, a deviation indication is shown by a vertical bar and dots to the left and to the right of the bar. What statement describes the correct interpretation of the display?

- a) The deviation of the bar from the center indicates the track error as angular distance in degrees; the scale for full deflection depends on the operating mode of the GPS
- b) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection depends on the operating mode of the GPS
- c) The deviation of the bar from the center indicates the track error as angular distance in degrees; the scale for full deflection is $\pm 10^\circ$
- d) The deviation of the bar from the center indicates the track error as absolute distance in NM; the scale for full deflection is ± 10 NM

07. 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

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

- 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

09. Air traffic control service is conducted by which services?

- a) ALR (alerting service) SAR (search and rescue service) TWR (aerodrome control service)
- b) FIS (flight information service) AIS (aeronautical information service) AFS (aeronautical fixed telecommunication service)
- c) APP (approach control service) ACC (area control service) FIS (flight information service)
- d) TWR (aerodrome control service) APP (approach control service) ACC (area control service)

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10. Which are the official basic units for horizontal distances used in aeronautical navigation and their abbreviations?

- a) Nautical miles (NM), kilometers (km)
- b) Land miles (SM), sea miles (NM)
- c) Yards (yd), meters (m)
- d) Feet (ft), inches (in)

11. During flight you have to solve a problem, how do you proceed?

- a) There is no time for solving problems during flight
- b) Solve problem immediately, otherwise refer to the operating handbook
- c) Contact other pilot via radio for help, keep flying
- d) Primarily fly the airplane and keep it stable, then attend to the problem and keep flying the airplane

12. 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

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

14. The connection between middle ear and nose and throat region is called...

- a) Inner ear
- b) Eardrum
- c) Cochlea
- d) Eustachian tube

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15. What does a readability of 5 indicate?

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

16. Which direction corresponds to 'compass north' (CN)?

- a) The most northerly part of the magnetic compass in the aircraft, where the reading takes place
- b) The direction to which the direct reading compass aligns due to earth's and aircraft's magnetic fields
- c) The angle between the aircraft heading and magnetic north
- d) The direction from an arbitrary point on Earth to the geographical North Pole

17. At which altitude is the atmospheric pressure approximately half the MSL value (1013 hPa)?

- a) 18000 ft
- b) 22000 ft
- c) 10000 ft
- d) 5000 ft

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

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

19. Weather phenomena are most common to be found in which atmospheric layer?

- a) Tropopause
- b) Stratosphere
- c) Thermosphere
- d) Troposphere

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20. At stationary glide and the same mass, what is the difference when using a thick airfoil instead of a thinner airfoil?

- a) More drag, same lift
- b) Less drag, less lift
- c) More drag, less lift
- d) Less drag, same lift

21. An aircraft is flying at a pressure altitude of 7000 feet with an outside air temperature (OAT) of +11°C. The QNH altitude is 6500 ft. The true altitude equals...

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

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

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

23. What is the meaning of the abbreviation "VMC"?

- a) Variable meteorological conditions
- b) Visual meteorological conditions
- c) Instrument flight conditions
- d) Visual flight rules

24. 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

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25. What is the minimum flight visibility in airspace "C" below FL 100 for an aircraft operating under VFR?

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

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

- 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

27. Before the launch using a parallel-cable winch, the glider pilot realizes the second cable lying close to his glider about to launch. What actions should be taken by the glider pilot?

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

28. 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)

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

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

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

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30. Which section of the flight manual describes the basic empty mass of an aircraft?

- a) Limitations
- b) Normal procedures
- c) Weight and balance
- d) Performance

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

- a) The stagnation point moves down
- b) The center of pressure moves down
- c) The center of pressure moves up
- d) The stagnation point moves up

32. What is the function of the blood platelets (thrombocytes)?

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

33. Before a winch launch, you detect a light tailwind. What has to be considered?

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

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

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

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35. In which situation is it NOT possible to achieve a pressure compensation between the middle ear and the environment?

- a) During a light and slow climb
- b) Breathing takes place using the mouth only
- c) All windows are completely closed
- d) The Eustachian tube is blocked

36. What values are usually marked with a red line on instrument displays?

- a) Operational limits
- b) Caution areas
- c) Operational areas
- d) Recommended areas

37. What information is provided in the part "AD" of the AIP?

- a) Warnings for aviation, ATS airspaces and routes, restricted and dangerous airspaces
- b) Access restrictions for airfields, passenger controls, requirements for pilots, license samples and validity periods
- c) Table of content, classification of airfields with corresponding maps, approach charts, taxi charts
- d) Map icons, list of radio nav aids, time for sunrise and sunset, airport fees, air traffic control fees

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38. What cloud type does the picture show? See figure (MET-002).



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

39. Weather and operational information about the destination aerodrome can be obtained during the flight by...

- a) PIREP
- b) SIGMET
- c) ATIS
- d) VOLMET

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40. The elevator moves an aeroplane around the...

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

41. What does a readability of 2 indicate?

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

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

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

43. What phrase is used by a pilot if a transmission is to be answered with "yes"?

- a) Affirm
- b) Yes
- c) Affirmative
- d) Roger

44. 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?

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

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45. Up to which altitude is an overflight prohibited according to the NOTAM? See figure (PFP-024)

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

46. 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

47. Carbon monoxide poisoning can be caused by...

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

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

- 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

49. The balance arm is the horizontal distance between...

- a) The C.G. of a mass and the rear C.G. limit
- b) The front C.G. limit and the datum line
- c) The front C.G. limit and the rear C.G. limit
- d) The C.G. of a mass and the datum line

50. What is the difference in latitude between A (12°53'30"N) and B (07°34'30"S)?

- a) .05,19°
- b) .20,28°
- c) .05°19'00"
- d) .20°28'00"

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

- a) As low as possible
- b) As steep as possible
- c) As high as possible
- d) With as little bank as possible

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

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

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53. 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

54. 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

55. About how many axes does an aircraft move and how are these axes called?

- a) 3; vertical axis, lateral axis, longitudinal axis
- b) 4; vertical axis, lateral axis, longitudinal axis, axis of speed
- c) 3; x-axis, y-axis, z-axis
- d) 4; optical axis, imaginary axis, sagged axis, axis of evil

56. In what cases is visibility transmitted in kilometers?

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

57. The movement of air flowing apart is called...

- a) Convergence
- b) Concurrence
- c) Subsidence
- d) Divergence

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58. During initial winch launch, one wing of a glider plane gets ground contact. What action should be taken by the glider pilot?

- a) Pull the elevator
- b) Decouple cable immediately
- c) Rudder in opposite direction
- d) Ailerons in opposite direction

59. Given: Ground speed (GS): 160 kt. True course (TC): 177°. Wind vector (W/WS): 140°/20 kt. The true heading (TH) equals...

- a) 180°
- b) 173°
- c) 169°
- d) 184°

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

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

61. What chart shows areas of precipitation?

- a) Satellite picture
- b) Wind chart
- c) Radar picture
- d) GAFOR

62. Visual illusions are mostly caused by...

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

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63. What is the meaning of the phrase "Approved"?

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

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

- 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

65. The indication of a magnetic compass deviates from magnetic north direction due to what errors?

- a) Inclination and declination of the earth's magnetic field
- b) Gravity and magnetism
- c) Deviation, turning and acceleration errors
- d) Variation, turning and acceleration errors

66. Which weather phenomenon is typically associated with wind shear?

- a) Fog
- b) Stable high pressure areas
- c) Invernal warm front
- d) Thunderstorms

67. The angle of attack is the angle between...

- a) The chord line and the longitudinal axis of an aeroplane
- b) The chord line and the oncoming airflow
- c) The wing and the fuselage of an aeroplane
- d) The undisturbed airflow and the longitudinal axis of an aeroplane

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68. With Central European Time (CET) given as UTC+1, what UTC time corresponds to 1700 CET?

- a) 1500 UTC
- b) 1700 UTC
- c) 1800 UTC
- d) 1600 UTC

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

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

70. Measured pressure distribution in MSL and corresponding frontal systems are displayed by the...

- a) Hypsometric chart
- b) Prognostic chart
- c) Surface weather chart
- d) Significant Weather Chart (SWC)

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Response Scheme

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

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

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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: _____ |
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| 49: _____ | 50: _____ | 51: _____ | 52: _____ |
| 53: _____ | 54: _____ | 55: _____ | 56: _____ |
| 57: _____ | 58: _____ | 59: _____ | 60: _____ |
| 61: _____ | 62: _____ | 63: _____ | 64: _____ |
| 65: _____ | 66: _____ | 67: _____ | 68: _____ |
| 69: _____ | 70: _____ | | |