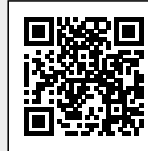


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STUDENT NAME:

DATE AND TIME:

01. What visual flight conditions can be expected after the passage of a cold front?

- a) Good visibility, formation of cumulus clouds with showers of rain or snow
- b) Poor visibility, formation of overcast or ground-covering stratus clouds, snow
- c) Scattered cloud layers, visibility more than 5 km, formation of shallow cumulus clouds
- d) Medium visibility with lowering cloud bases, onset of prolonged precipitation

02. Which factor shortens landing distance?

- a) Heavy rain
- b) High pressure altitude
- c) High density altitude
- d) Strong head wind

03. How do induced drag and parasite drag change with increasing airspeed during a horizontal and stable cruise flight?

- a) Parasite drag decreases and induced drag increases
- b) Induced drag decreases and parasite drag increases
- c) Parasite drag decreases and induced drag decreases
- d) Induced drag increases and parasite drag increases

04. Which phrase is to be used when a pilot wants the tower to know that he is ready for take-off?

- a) Ready for departure
- b) Request take-off
- c) Ready for start-up
- d) Ready

05. The glide ratio of a sailplane can be improved by which measures?

- a) Higher airplane mass, thin airfoil, taped gaps between wing and fuselage
- b) Lower airplane mass, correct speed, retractable gear
- c) Cleaning, correct speed, retractable gear, taped gaps between wing and fuselage
- d) Forward C.G. position, correct speed, taped gaps between wing and fuselage

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06. How can a pilot confirm a search and rescue signal on ground in flight?

- a) Push the rudder in both directions multiple times
- b) Fly in a parabolic flight path multiple times
- c) Rock the wings
- d) Deploy and retract the landing flaps multiple times

07. The angle between the magnetic course and the true course is called...

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

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08. What cloud type does the picture show? See figure (MET-004).



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

09. Is it possible to enter airspace C with a glider plane?

- a) Yes, but only with transponder activated
- b) No
- c) With restrictions, in case of less air traffic
- d) Yes, but only with approval of the respective ATC unit

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10. Given: True course: 270°. TAS: 100 kt. Wind: 090°/25 kt. Distance: 100 NM. The ground speed (GS) equals...

- a) 120 kt
- b) 131 kt
- c) 117 kt
- d) 125 kt

11. What is the meaning of the abbreviation "TRA"?

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

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

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

13. During thermal soaring, another sailplane is following close by. What should be done to avoid a collision?

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

14. 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

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15. Extending airbrakes results in ...

- a) Less drag and more lift
- b) More drag and less lift
- c) More drag and more lift
- d) Less drag and less lift

16. What is referred to as mountain wind?

- a) Wind blowing down the mountain side during the night
- b) Wind blowing uphill from the valley during the night
- c) Wind blowing uphill from the valley during daytime
- d) Wind blowing down the mountain side during daytime

17. A transponder with the ability to send the current pressure level is a...

- a) Transponder approved for airspace "B".
- b) Mode C or S transponder.
- c) Pressure-decoder.
- d) Mode A transponder.

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

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

19. Stabilization around the lateral axis during cruise is achieved by the...

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

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20. Flying slow close to stall conditions, the left wing is lower than the right wing. How can the stall be prevented?

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

21. 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

22. What does the abbreviation "H24" stand for?

- a) No specific opening times
- b) 24 h service
- c) Sunrise to sunset
- d) Sunset to sunrise

23. What type of fog emerges if humid and almost saturated air, is forced to rise upslope of hills or shallow mountains by the prevailing wind?

- a) Advection fog
- b) Steaming fog
- c) Radiation fog
- d) Orographic fog

24. What is the meaning of the red range on the airspeed indicator?

- a) Speed which must not be exceeded regardless of circumstances
- b) Speed which must not be exceeded within bumpy air
- c) Speed which must not be exceeded with flaps extended
- d) Speed which must not be exceeded in turns with more than 45° bank

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25. Given: True course: 120°. TAS: 120 kt. Wind: 150°/12 kt. The WCA equals...

- a) 3° to the right
- b) 6° to the right
- c) 6° to the left
- d) 3° to the left

26. What is the primary purpose of an aircraft accident investigation?

- a) To identify the reasons and work out safety recommendations
- b) To clarify questions of liability within the meaning of compensation for passengers
- c) To work for the public prosecutor and help to follow-up flight accidents
- d) To determine the guilty party and draw legal consequences

27. What is the correct way of acknowledging "You are now entering airspace Delta"?

- a) Roger
- b) Airspace Delta
- c) Wilco
- d) Entering

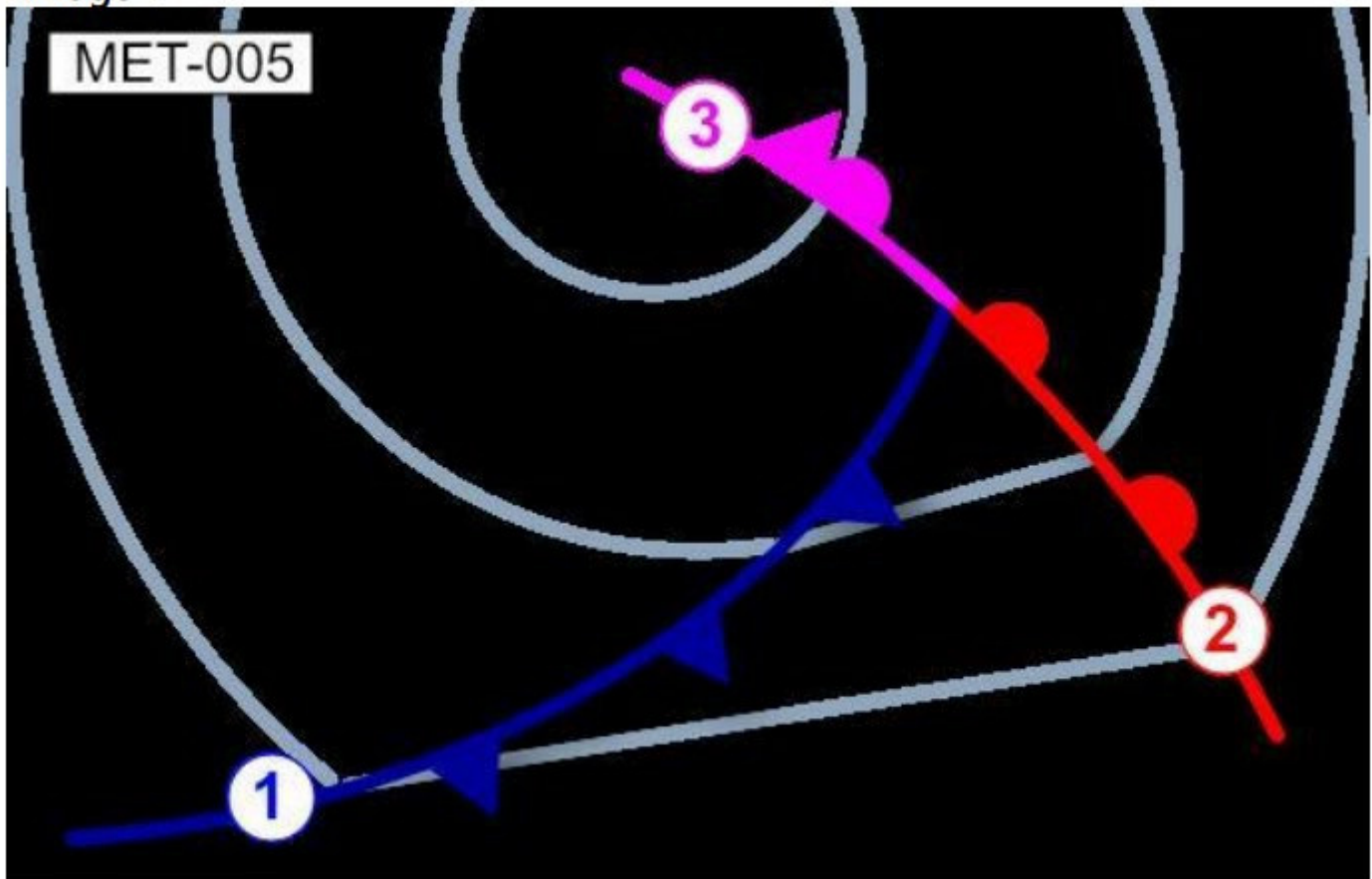
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28. The symbol labeled (2) as shown in the picture is a / an... See figure (MET-005)



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

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

- 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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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?

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

31. The character of an air mass is given by what properties?

- a) Wind speed and tropopause height
- b) Environmental lapse rate at origin
- c) Region of origin and track during movement
- d) Temperatures at origin and present region

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

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

33. While planning a cross country gliding flight, what ground structure should be avoided en route?

- a) Stone quarries and large sand areas
- b) Highways, railroad tracks and channels
- c) Moist ground, water areas, marsh areas
- d) Areas with buildings, concrete and asphalt

34. What has to be considered for the speed during approach and landing?

- a) Wind speed and weight
- b) Altitude and weight
- c) Wind speed and Altitude
- d) Weight and wind speed

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

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

36. 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

37. What is the ISA standard pressure at FL 180 (5500 m)?

- a) 300 hPa
- b) 250 hPa
- c) 1013.25 hPa
- d) 500 hPa

38. The critical angle of attack...

- a) Decreases with forward center of gravity position
- b) Changes with increasing weight
- c) Is independent of the weight
- d) Increases with backward center of gravity position

39. The load factor "n" describes the relationship between...

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

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40. What difference in altitude is shown by an altimeter, if the reference pressure scale setting is changed from 1000 hPa to 1010 hPa?

- a) Zero
- b) 80 m less than before
- c) 80 m more than before
- d) Values depending on QNH

41. Which conditions are likely for the formation of advection fog?

- a) Warm, humid air cools during a cloudy night
- b) Cold, humid air moves over a warm ocean
- c) Humidity evaporates from warm, humid ground into cold air
- d) Warm, humid air moves over a cold surface

42. An aircraft is following a true course (TC) of 220° at a constant TAS of 220 kt. The wind vector is 270°/50 kt. The ground speed (GS) equals...

- a) 185 kt
- b) 255 kt
- c) 170 kt
- d) 135 kt

43. What structural item provides directional stability to an airplane?

- a) Differential aileron deflection
- b) Wing dihedral
- c) Large elevator
- d) Large vertical tail

44. The pressure compensation between wing upper and lower surfaces results in ...

- a) Induced drag by wing tip vortices
- b) Laminar airflow by wing tip vortices
- c) Profile drag by wing tip vortices
- d) Lift by wing tip vortices

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

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

46. Which of the following factors affects the reception of VHF transmissions?

- a) Height of ionosphere
- b) Altitude
- c) Twilight error
- d) Shoreline effect

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

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

48. How can a wind direction indicator be marked for better visibility?

- a) The wind direction indicator may be mounted on top of the control tower.
- b) The wind direction indicator could be made from green materials.
- c) The wind direction indicator could be surrounded by a white circle.
- d) The wind direction indicator could be located on a big black surface.

49. How are the flight controls on a small single-engine piston aircraft normally controlled and actuated?

- a) Manually through rods and control cables
- b) Hydraulically through hydraulic pumps and actuators
- c) Electrically through fly-by-wire
- d) Power-assisted through hydraulic pumps or electric motors

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50. What is the correct way of acknowledging the instruction "Next report PAH"?

- a) Positive
- b) Wilco
- c) Report PAH
- d) Roger

51. What is the purpose of "interception lines" in visual navigation?

- a) They are used as easily recognizable guidance upon a possible loss of orientation
- b) They help to continue the flight when flight visibility drops below VFR minima
- c) To mark the next available en-route airport during the flight
- d) To visualize the range limitation from the departure aerodrome

52. Information about pressure patterns and frontal situation can be found in which chart?

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

53. What process results in the formation of "advection fog"?

- a) Cold, moist air is being moved across warm ground areas
- b) Cold, moist air mixes with warm, moist air
- c) Prolonged radiation during nights clear of clouds
- d) Warm, moist air is moved across cold ground areas

54. The static pressure of gases work...

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

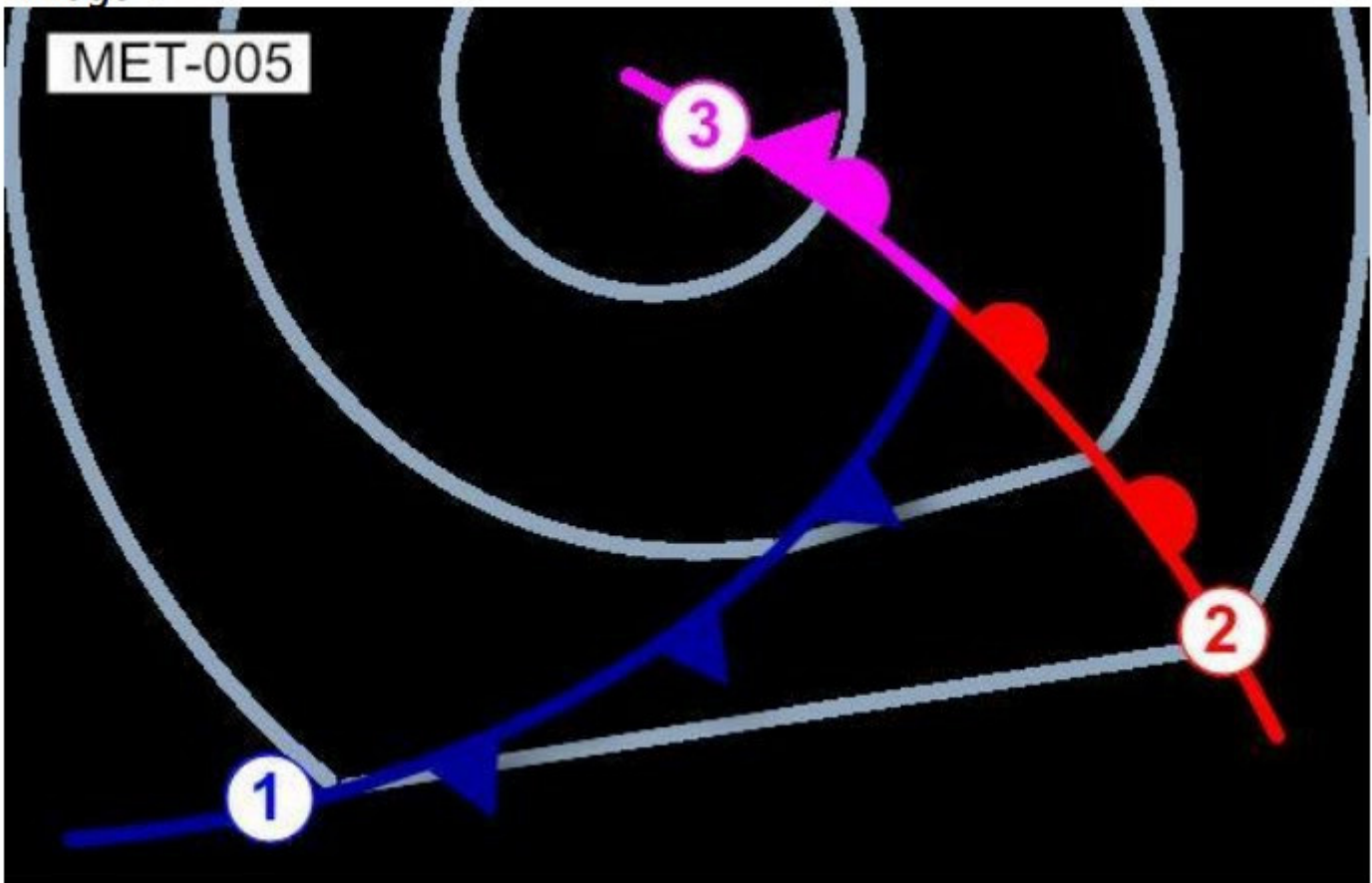
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55. The symbol labeled (1) as shown in the picture is a / an... See figure (MET-005)



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

56. The angle between the magnetic course and the true course is called...

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

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57. 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

58. Water ballast increases wing load by 40%. By what percentage does the minimum speed of the glider plane increase?

- a) 100%
- b) 40%
- c) 200%
- d) 18%

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

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

60. The term "tropopause" is defined as...

- a) The layer above the troposphere showing an increasing temperature
- b) The height above which the temperature starts to decrease
- c) The boundary area between the troposphere and the stratosphere
- d) The boundary area between the mesosphere and the stratosphere

61. The angle between compass north and magnetic north is called...

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

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62. What is an indication for a macho attitude?

- a) Risky flight maneuvers to impress spectators on ground
- b) Comprehensive risk assessment when faced with unfamiliar situations
- c) Quick resignation in complex and critical situations
- d) Careful walkaround procedure

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

- 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

64. Which of the following conditions are most favourable for ice accretion?

- a) Temperatures between 0° C and -12° C, presence of supercooled water droplets (clouds)
- b) Temperatures below 0° C, strong wind, sky clear of clouds
- c) Temperatures between -20° C and -40° C, presence of ice crystals (Ci clouds)
- d) Temperatures between +10° C and -30° C, presence of hail (clouds)

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

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

66. The average decrease of blood alcohol level for an adult in one hour is approximately...

- a) 0.01 percent
- b) 0.03 percent
- c) 0.1 percent
- d) 0.3 percent

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67. Which process may result in an inversion layer at about 5000 ft (1500 m) height?

- a) Ground cooling by radiation during the night
- b) Intensive sunlight insolation during a warm summer day
- c) Advection of cool air in the upper troposphere
- d) Widespread descending air within a high pressure area

68. 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

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

- a) Fixed beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air
- 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) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the ground.

70. What does the abbreviation "FIS" stand for?

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

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Response Scheme

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

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

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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: _____		