

# Exam simulation

Exam BPL Gas - Balloon Pilot License - Operational Procedures



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**STUDENT NAME:**

**DATE AND TIME:**

## **01. What is the meaning of the abbreviation "VMC"?**

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

## **02. Which dangerous attitudes are often combined?**

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- a) Impulsivity and carefulness
- b) Macho and invulnerability
- c) Self-abandonment and macho
- d) Invulnerability and self-abandonment

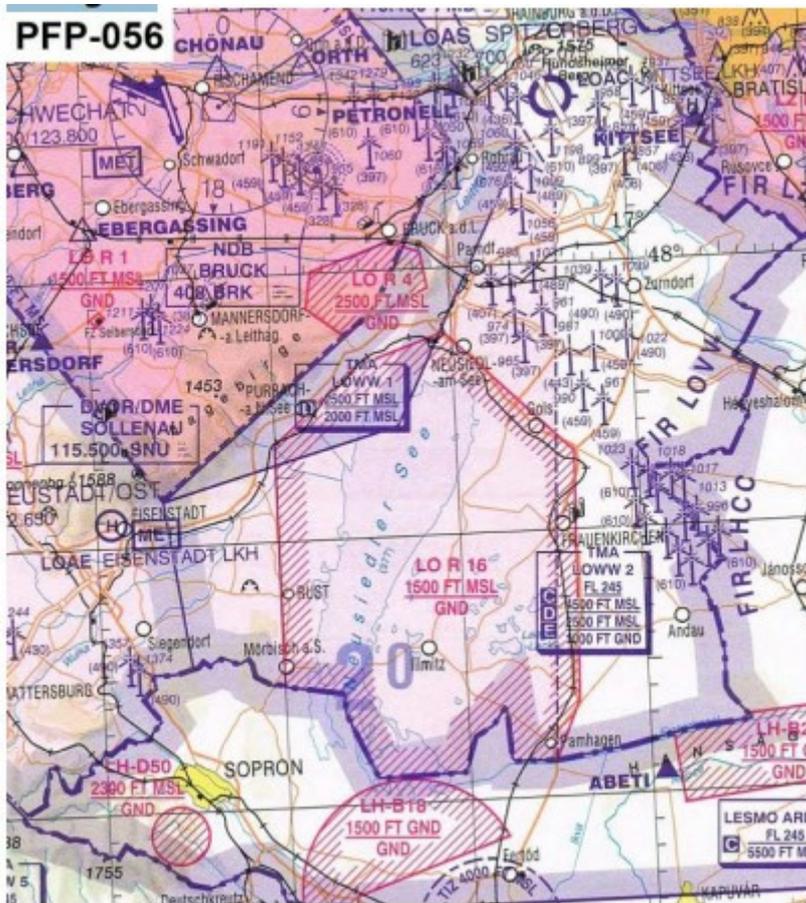
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## 03. The upper limit of LO R 16 equals... See annex (PFP-056)



- a) FL150
- b) 1500 ft GND
- c) 1500 ft MSL
- d) 1500 m MSL

## 04. What is the meaning of the abbreviation "AIREP"?

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

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## 05. Which statement is correct with regard to the polar axis of the Earth?

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- a) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is at an angle of  $23.5^\circ$  to the plane of the equator
- b) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is perpendicular to the plane of the equator
- c) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is perpendicular to the plane of the equator
- d) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is at an angle of  $66.5^\circ$  to the plane of the equator

## 06. Under which circumstances is it more likely to accept higher risks?

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- a) During check flights due to a high level of nervousness
- b) During flight planning when excellent weather is forecast
- c) Due to group-dynamic effects
- d) If there is not enough information available

## 07. A frequency of 119.500 MHz is correctly transmitted as...

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- a) One one niner decimal five
- b) One one niner decimal five zero
- c) One one niner thousand decimal five zero
- d) One one niner decimal five zero zero

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

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

## 09. What effect has air temperature on the carrying force and on maximum take-off mass of a balloon?

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- a) Maximum take-off mass is higher at low temperatures
- b) Maximum take-off mass is lower at low temperatures
- c) Carrying force is higher at low temperatures
- d) Carrying force is lower at low temperatures

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## 10. What must be considered for cross-border flights?

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- a) Transmission of hazard reports
- b) Approved exceptions
- c) Regular location messages
- d) Requires flight plans

## 11. The term "static pressure" is defined as pressure...

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- a) Resulting from orderly flow of air particles
- b) Inside the airplane cabin
- c) Sensed by the pitot tube
- d) Of undisturbed airflow

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

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

## 13. A cross-country flight is made using the ICAO 1 : 500.000 aeronautical chart. An overflight crosscheck shows that a distance of 6 cm in the chart has been passed within 9 minutes. After how many more minutes, the overflight of another waypoint at a chart distance of additional 4 cm can be expected?

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- a) 18 min
- b) 6 min
- c) 12 min
- d) 9 min

## 14. What is the distance between the parallels of latitude 48°N and 49°N along a meridian line?

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- a) 10 NM
- b) 111 NM
- c) 60 NM
- d) 1 NM

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## 15. Distress messages contain...

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- a) Information concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight
- b) Information concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance
- c) Information concerning urgent spare parts which are required for a continuation of flight and which have to be ordered in advance
- d) Information concerning the apron personnel and which imply an imminent danger to landing aircraft

## 16. During buildup of a gas balloon, sacks with sand are hooked up. The end of the hooks should be directed ...

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- a) Parallel to net path
- b) Outside
- c) Inside
- d) Perpendicular to net path

## 17. After take-off with a balloon, obstacles at a distance of 300 m erect in expected flight path up to 40 m height. Rate of climb is expected with 1.5 m/s. What maximum actual wind speed can be accepted to maintain a clearance of 50 m above obstacles, assuming double the actual wind speed for calculation?

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- a) 8 m/s
- b) 2.5 m/s
- c) 10 m/s
- d) 1 m/s

## 18. With other factors remaining constant, decreasing temperature results in...

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- a) Decreasing spread and decreasing relative humidity
- b) Decreasing spread and increasing relative humidity
- c) Increasing spread and decreasing relative humidity
- d) Increasing spread and increasing relative humidity

## 19. The measurement of altitude is based on the change of the...

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- a) Dynamic pressure
- b) Static pressure
- c) Differential pressure
- d) Total pressure

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## 20. The standard state of gases refers to which temperature?

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- a) 15° C
- b) 5° C
- c) 25° C
- d) 0° C

## 21. Carbon monoxide poisoning can be caused by...

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

## 22. Before buildup, the buildup team has to be informed about correct behaviour at sudden critical situations how?

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- a) Only at gusty winds
- b) Twice
- c) At least two days before
- d) By the balloon pilot

## 23. What has to be expected during descent above a heated water surface?

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- a) The rate of descent decreases
- b) The horizontal speed decreases
- c) The horizontal speed increases
- d) The rate of descent increases

## 24. Which distances to clouds have to be maintained during a VFR flight in airspaces C, D and E?

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- a) 1000 m horizontally, 300 m vertically
- b) 1000 m horizontally, 1500 ft vertically
- c) 1500 m horizontally, 1000 m vertically
- d) 1500 m horizontally, 1000 ft vertically

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## 25. The maximum number of passengers can be found ...

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- a) In the certificate of registration
- b) In the operating handbook
- c) In the Flight Log book
- d) In the airworthiness certificate

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

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

## 27. What has to be expected by the balloon pilot during descent in deeply cooled layers close to the ground?

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- a) Floating on top of the cold air layer
- b) Sudden change in airspeed
- c) Balloon starts to climb
- d) Increasing descent while entering to ground layers

## 28. On summerdays with calm winds, the balloon pilot has to expect:

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- a) With strongly heated surface layers
- b) With a cold air pool on the ground
- c) With wind shear
- d) With a pronounced ground inversion

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

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

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**30. The assembly of the panels to the hull of a web-less gas balloon is done ...**

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- a) By vulcanisation
- b) By stitching
- c) By welding
- d) By gluing

**31. Which validity does the "Certificate of Airworthiness" have?**

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- a) 12 years
- b) 12 months
- c) Unlimited
- d) 6 months

**32. What has to be expected when diving into an inversion layer from above?**

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- a) Rate of descent increases
- b) Rate of descent decreases
- c) Sudden drop onto the ground
- d) Uncontrollable oscillation of the basket

**33. Environmental air temperature and filling gas temperature are the same. Now, the free balloon descends into warmer air. What statement is correct?**

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- a) Descent force increases
- b) Descent force decreases
- c) Weight force increases
- d) Weight force decreases

**34. A cross-country flight is made using the ICAO 1 : 500.000 aeronautical chart. An overflight crosscheck shows that a distance of 4 cm in the chart has been passed within 12 minutes. After how many more minutes, the overflight of another waypoint at a chart distance of additional 6 cm can be expected?**

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- a) 9 min
- b) 6 min
- c) 12 min
- d) 18 min

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**35. The force resulting from the (positive) difference from load-bearing capacity and weight force, is referred to as:**

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- a) Load force
- b) Upper force
- c) Climb force
- d) Lift force

**36. An aerodrome beacon (ABN) is a...**

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- 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) Fixed 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 air

**37. In case of damage of the hull of a gas balloon, repairs have to be done by a certified Approved Aeronautical Workshop when exceeding a length of:**

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- a) 1.0 m
- b) 2.0 m
- c) 0.5 m
- d) 5.0 m

**38. How may passengers assist the balloon pilot during landing preparation?**

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- a) By activating the emergency opening
- b) By stowing of loose parts
- c) By activating the vents
- d) By activating the pull rope

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

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

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**40. Given: TC: 179°; WCA: -12°; VAR: 004° E; DEV: +002° What are MH and MC?**

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- a) MH: 167°. MC: 175°
- b) MH: 167°. MC: 161°
- c) MH: 163°. MC: 175°
- d) MH: 163°. MC: 161°

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**41. Urgency messages are messages...**

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

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**42. What action should be recommended to a balloon pilot after landing with a gas balloon in a forest with large fir trees?**

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- a) Quick release the gas from the balloon by activating the rip panel
- b) Slowly draining the balloon by gently pulling the vents, until the basket touches ground
- c) Transport the filled balloon by ground crew to a clear area, and dismount it there
- d) Fix the balloon over night; try restart at next morning

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**43. The rotational axis of the Earth runs through the...**

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- a) Geographic North Pole and on the geographic South Pole
- b) Magnetic north pole and on the magnetic south pole
- c) Geographic North Pole and on the magnetic south pole
- d) Magnetic north pole and on the geographic South Pole

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**44. In what case is visibility transmitted in meters?**

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

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**45. Point A on the Earth's surface lies exactly on the parallel of latitude of 47°50'27"N. Which point is exactly 240 NM north of A?**

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- a) 53°50'27"N
- b) 49°50'27"N
- c) 43°50'27"N
- d) 51°50'27"N

**46. The minimum length of the towing rope is:**

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- a) 20 m
- b) 50 m
- c) 100 m
- d) 30 m

**47. How many satellites are necessary for a precise and verified three-dimensional determination of the position?**

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- a) Four
- b) Five
- c) Two
- d) Three

**48. How can the vents be checked before take-off with a gas balloon?**

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- a) Connecting the filling nozzle with the static line loop
- b) Strongly shaking the vent rope
- c) Perform a valve slide
- d) Check if the ropes are clear and working

**49. Which of the following options are possible SSR-Transponder modes?**

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- a) B, R, S
- b) A, C, S
- c) A, C, R
- d) B, C, V

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**50. What change results from an increase in temperature of the carrying gas and of the environmental air at a gas balloon at maximum differential pressure?**

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- a) The load capability decreases by 4% per K temperature change
- b) The load capability increases by 4% per K temperature change
- c) The load capability increases by 0.4% per K temperature change
- d) The load capability decreases by 0.4% per K temperature change

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

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

**52. 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?**

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

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

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

**54. Why should balloon pilot or passengers not wear any clothes made of silk or synthetic fibers during ride with a gas balloon?**

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- a) Because of the danger of explosions induced by sparks after electrical discharge
- b) Because these materials may lead to malfunction of some instruments
- c) Because the total mass will be increased beyond the operating limits
- d) Because these materials may lead to noise in radio reception

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

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

**56. The term 'isogonal' or 'isogonic line' is defined as a line on an aeronautical chart, connecting all points with the same value of...**

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

**57. What does a cloud coverage of "BKN" mean in a METAR weather report?**

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- a) 5 to 7 eighths
- b) 1 to 2 eighths
- c) 8 eighths
- d) 3 to 4 eighths

**58. During a balloon ride, visibility continuously becomes poorer, also cloud base decreases in direction of the current track. How should the balloon pilot react to this situation?**

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- a) Continue ride in remaining altitude
- b) Use next best chance for landing
- c) Use GPS or radio navigation to continue ride in clouds
- d) Break through the clouds and continue above clouds

**59. What is the meaning of an area marked as "TMZ"?**

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- a) Touring Motorglider Zone
- b) Traffic Management Zone
- c) Transponder Mandatory Zone
- d) Transportation Management Zone

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## 60. An altitude of 4500 ft is transmitted as...

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- a) Four five zero zero
- b) Four thousand five zero zero
- c) Four five thousand
- d) Four thousand five hundred

## 61. How will the sag of the pull rope change during descent?

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- a) It will remain unchanged
- b) It will increase
- c) It will change periodically
- d) It will decrease

## 62. The majority of aviation accidents are caused by...

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- a) Human failure
- b) Technical failure
- c) Geographical influences
- d) Meteorological influences

## 63. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL110?

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

## 64. The aerostatic lift corresponds to which force?

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- a) The dynamic force due to airstream across the top of the hull
- b) The weight of the displaced air
- c) The drag due to airstream around the balloon envelope
- d) The weight of the balloon less ballast

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## 65. Aerostatic lift, amongst other factors, depends on...

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- a) On the speed
- b) Balloon mass
- c) Shape of the envelope
- d) Air density

## 66. What is the percentage of oxygen in the atmosphere at 6000 ft?

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- a) 78 %
- b) 21 %
- c) 12 %
- d) 18.9 %

## 67. When do you expect wind shear?

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

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

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

## 69. What visual flight conditions can be expected within the warm sector of a polar front low during summer time?

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- a) Visibility less than 1000 m, cloud-covered ground
- b) Moderate to good visibility, scattered clouds
- c) Moderate visibility, heavy showers and thunderstorms
- d) Good visibility, some isolated high clouds

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## 70. The term "aerodrome elevation" is defined as...

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- a) The highest point of the landing area
- b) The average value of the height of the manoeuvring area
- c) The highest point of the apron
- d) The lowest point of the landing area

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## Response Scheme

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

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

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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: _____		