Exam simulation

BPL Gas Balloon Pilot Licence - Communications

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STUDENT NAME:	DATE AND TIME:

01. London (EGLL) is located at 000° 10'W, Cardiff (EGFF) at 003° 44'W. The latitude of both positions can be considered as equal. What is the difference of sunrise and sunset times, expressed in UTC, between London and Cardiff?

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

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

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

03. What is the purpose of the closing rope of a gas balloon?

a) To close the sand disposer
b) To close the appendix
c) To close the emergency opening
d) To secure the towing rope

04. A true altitude is...

a) A height above ground level corrected for non-standard pressure
b) An altitude above mean sea level corrected for non-standard temperature
c) A height above ground level corrected for non-standard temperature
d) A pressure altitude corrected for non-standard temperature

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05. Where are the two polar circles?

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

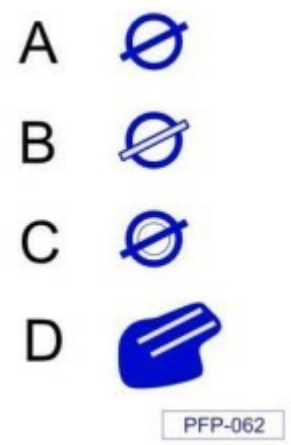
06. Which phrase is used by a pilot when he wants to fly through controlled airspace?

a) Apply
b) Want
c) Request
d) Would like

07. Aerostatic lift, amongst other factors, depends on...

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

08. (For this question, please use annex PFP-062) According ICAO, what symbol indicates a civil airport (not international airport) with paved runway?



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

09. Distress messages contain...

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

10. The rotational axis of the Earth runs through the...

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

11. With respect to aircraft accident and incident investigation, what are the three categories regarding aircraft occurrences?

a) Incident, Serious incident, Accident

b) Event, Serious event, Accident

c) Happening, Event, Serious event

d) Event, Crash, Disaster

12. Under BOP.BAS.050(b), which of these balloon documents may be carried on the flight or stowed in the retrieve vehicle, as originals or copies, subject to any additional requirements of the States concerned?

a) The certificate of registration, certificate of airworthiness, AFM or equivalent, third-party liability insurance certificate and balloon logbook or equivalent

b) Only an EASA Form 1 and the crew members' passports

c) Only an aeroplane technical log, even when the aircraft is a balloon

d) Only a passenger list; no aircraft documentation is required

13. When do you expect wind shear?

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

14. During a flight, a flight plan can be filed at the...

a) Search and Rescue Service (SAR)

b) Next airport operator en-route

c) Flight Information Service (FIS)

d) Aeronautical Information Service (AIS)

15. The purpose of the drag lines of the parachute is ...

a) To transfer the carrying force of the balloon in the top opening area

b) To transfer the force from the pull rope to the parachute

c) To keep the parachute in the center of the top opening

d) To transfer the force from the pull rope to the free-balloon hull

16. Which of the following options states a correct position report?

a) DEABC over "N" in FL 2500 ft
b) DEABC over "N" at 35
c) DEABC, "N", 2500 ft
d) DEABC reaching "N"

17. What weather conditions in Central Europe are typically found in high pressure areas during summer?

a) Small isobar spacing with strong prevailing northerly winds
b) Large isobar spacing with calm winds, formation of local wind systems
c) Large isobar spacing with strong prevailing westerly winds
d) Small isobar spacing with calm winds, formation of local wind systems

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

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

19. What has to be considered at moderate wind speeds during a balloon ride across mountainous area with cloud-free sky?

a) Icing conditions
b) Altimeter indication too low
c) Lee waves and severe up- and downdrafts
d) Decreasing burner power

20. Which transponder code should be set during a radio failure without any request?

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

21. In what situation is it appropriate to set the transponder code 7600?

a) Hijacking

b) Loss of radio

c) Flight into clouds

d) Emergency

22. What can solar heating of the lifting gas do to the pressure ceiling of a gas balloon before gas is released?

a) The pressure ceiling decreases

b) The pressure ceiling increases

c) The lifting gas always cools immediately

d) A sudden increase in rate of descent

23. For a fully inflated gas balloon at constant ambient pressure and envelope volume, assume both the lifting gas and outside air are initially at 250 K. If both warm by 1 K while excess lifting gas is released, what is the approximate change in net lifting capacity?

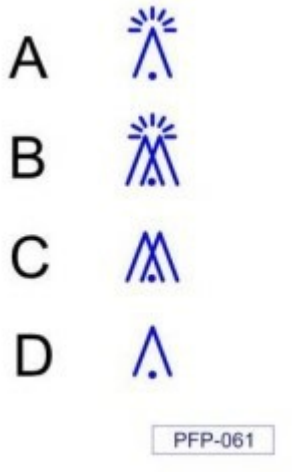
a) The load capability decreases by 4% per K temperature change

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

24. (For this question, please use annex PFP-061) According ICAO, what symbol indicates a group of unlighted obstacles?



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

25. With regard to gases, which statement is correct?

a) Temperature decreases with increasing pressure and constant volume
b) Volume increases with increasing temperature and constant pressure
c) Pressure decreases with increasing temperature and constant volume
d) Temperature increases with increasing volume and decreasing pressure

26. Air consists of oxygen, nitrogen and other gases. What is the approximate percentage of other gases?

a) 1 %
b) 21 %
c) 0.1 %
d) 78 %

27. Which approximate, geometrical form describes the shape of the Earth best for navigation systems?

a) Sphere of ecliptical shape
b) Ellipsoid
c) Flat plate
d) Perfect sphere

28. Which validity does the "Certificate of Airworthiness" have?

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

29. A wind shear is...

a) A slow increase of the wind speed in altitudes above 13000 ft
b) A meteorological downslope wind phenomenon in the alps
c) A vertical or horizontal change of wind speed and wind direction
d) A wind speed change of more than 15 kt

30. The pressure at MSL in ISA conditions is...

a) 1013.25 hPa
b) 113.25 hPa
c) 1123 hPa
d) 15 hPa

31. What is the correct way to transmit the call sign HB-YKM?

a) Hotel Bravo Yuliett Kilo Mikro
b) Home Bravo Yuliett Kilo Mike
c) Home Bravo Yankee Kilo Mikro
d) Hotel Bravo Yankee Kilo Mike

32. Distress messages are messages...

a) Sent by a pilot or an aircraft operating agency which have an imminent meaning for aircraft in flight

b) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance

c) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight

d) Concerning the operation or maintenance of facilities which are important for the safety and regularity of flight operations

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

a) Divergence resulting in air being lifted

b) Convergence resulting in air being lifted

c) Convergence resulting in sinking air

d) Divergence resulting in sinking air

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

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

35. Which of the following symptoms may indicate hypoxia?

a) Blue marks all over the body

b) Blue discolouration of lips and fingernails

c) Muscle cramps in the upper body area

d) Joint pain in knees and feet

36. What is the mass of a "cube of air" with the edges 1 m long, at MSL according ISA?

a) 0.1225 kg

b) 12.25 kg

c) 0.01225 kg

d) 1.225 kg

37. The altimeter's reference scale is set to airfield pressure (QFE). What indication is shown during the flight?

a) Airfield elevation

b) Pressure altitude

c) Altitude above MSL

d) Height above airfield

38. Which are the properties of a Mercator chart?

a) The scale increases with latitude, great circles are depicted as curved lines, rhumb lines are depicted as straight lines

b) The scale is constant, great circles are depicted as curved lines, rhumb lines are depicted as straight lines

c) The scale increases with latitude, great circles are depicted as straight lines, rhumb lines are depicted as curved lines

d) The scale is constant, great circles are depicted as straight lines, rhumb lines are depicted as curved lines

39. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL125?

a) 5000 m

b) 3000 m

c) 8000 m

d) 1500 m

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

a) 5 km

b) 1.5 km

c) 10 km

d) 8 km

41. How is an air mass described when moving to Central Europe via the Russian continent during winter?

a) Continental polar air

b) Continental tropical air

c) Maritime tropical air

d) Maritime polar air

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

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

43. A balloon pilot decides to use one or more separate gas containers for initial heating during buildup. To ensure a safe buildup ...

a) To expedite take-off, the gas containers have to be stored outside
b) No separate gas containers are allowed during buildup
c) The gas containers have to be fixed safely inside the basket
d) Two gas containers (one inside, one outside) are to be used

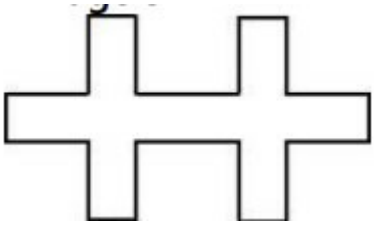
44. Which of the following situations is generally more favourable for a balloon flight, subject to checking the actual wind, weather and landing options?

a) A stable high-pressure situation near sunset with suitable light winds and no significant convection
b) Strong, gusty winds near an active thunderstorm
c) Strong foehn winds with lee-side rotors
d) An approaching active cold front with squalls

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

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

46. What is the meaning of this sign at an aerodrome? See figure (ALW-011)



a) Landing prohibited for a longer period
b) Glider flying is in progress
c) After take-off and before landing all turns have to be made to the right
d) Caution, manoeuvring area is poor

47. The term "static pressure" is defined as pressure...

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

48. The dynamic lift created by airflow across the top of the envelope of a balloon on the ground is referred to as?

a) Upper lift
b) Anti-ballast
c) Lower lift
d) False lift

49. Which of the stated surfaces will reduce the wind speed most due to ground friction?

a) Flat land, lots of vegetation cover
b) Oceanic areas
c) Mountainous areas, vegetation cover
d) Flat land, deserted land, no vegetation

50. What weather conditions can be expected during "Foehn" on the windward side of a mountain range?

a) Layered clouds, mountains obscured, poor visibility, moderate or heavy rain

b) Scattered cumulus clouds with showers and thunderstorms

c) Calm wind and forming of high stratus clouds (high fog)

d) Dissipating clouds with unusual warming, accompanied by strong, gusty winds

51. At which height the load carrying capability of a gas balloon is reduced by approximately 50% compared to MSL?

a) At 6500 m

b) At 11000 m

c) At 18000 m

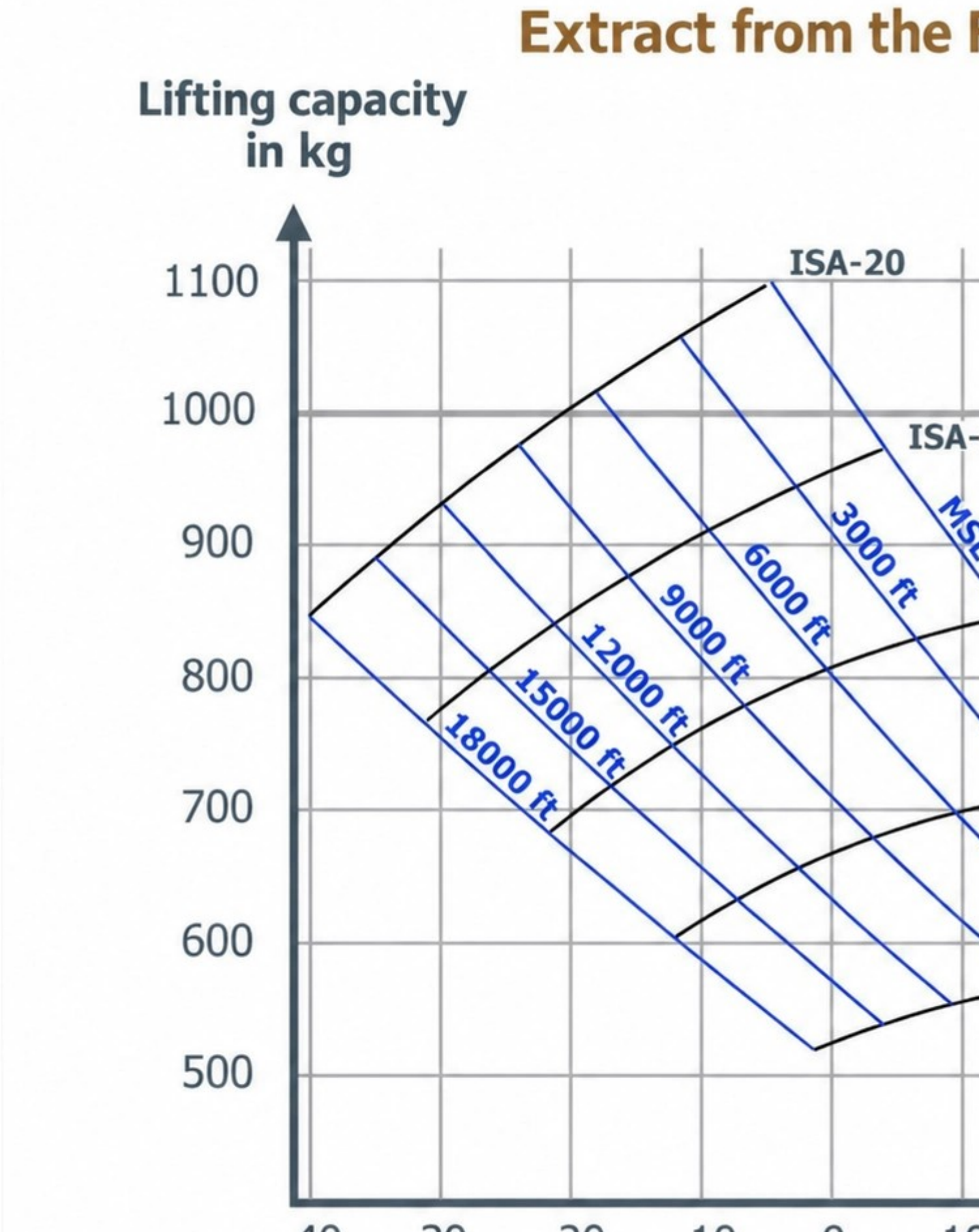
d) At 1500 m

52. Given the following masses: Empty mass 240 kg Instruments 20 kg per gas container (full): 30 kg per person: 80 kg Up to which pressure altitude can the hot-air balloon climb with 5 persons and 4 gas containers in the basket, assuming temperatures 10° below ISA? (use attachment ECQB-PPL_BPL001)

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a) 3000 ft
b) 17000 ft
c) 13000 ft
d) 7000 ft

53. In a simplified gas-balloon model, how does ascent below the pressure ceiling differ from ascent above it?

a) Below the pressure ceiling the balloon can climb indefinitely without becoming fully inflated
b) Above the pressure ceiling the envelope expands indefinitely without releasing gas
c) Below the pressure ceiling the lifting gas can expand; above it gas is released from the full envelope and lifting capacity decreases
d) Reaching the pressure ceiling has no effect on gas volume or lifting capacity

54. The minimum length of the towing rope is:

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

55. Which type of cloud is associated with prolonged rain?

a) Cirrostratus
b) Altocumulus
c) Cumulonimbus
d) Nimbostratus

56. A heading of 285 degrees is correctly transmitted as...

a) Two hundred eighty-five
b) Two eight five
c) Two eight five hundred
d) Two hundred eight five

57. A gas balloon has to be equipped with which tethers?

a) 1 at 40 m or 4 at 10 m
b) 1 at 30 m or 3 at 10 m
c) 2 at 10 m or 1 at 20 m
d) 2 at 20 m or 1 at 10 m

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

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

59. Which air traffic services can be expected within an FIR (flight information region)?

a) FIS (flight information service) ALR (alerting service)
b) ATC (air traffic control) FIS (flight information service)
c) AIS (aeronautical information service) SAR (search and rescue)
d) ATC (air traffic control) AIS (aeronautical information service)

60. 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) 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

61. For a fully inflated gas balloon at the same ambient pressure, envelope volume and lifting-gas temperature, what happens to lifting capacity when the outside air temperature decreases?

a) The lifting capacity decreases because the surrounding air becomes less dense

b) The lifting capacity is independent of the density of the surrounding air

c) The lifting capacity increases because the surrounding air becomes denser

d) The structural maximum permitted mass automatically increases with every temperature decrease

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

a) Human failure

b) Technical failure

c) Geographical influences

d) Meteorological influences

63. What conditions are favourable for the formation of thunderstorms?

a) Warm and dry air, strong inversion layer

b) Clear night over land, cold air and patches of fog

c) Calm winds and cold air, overcast cloud cover with St or As

d) Warm humid air, conditionally unstable environmental lapse rate

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

a) Variable meteorological conditions

b) Visual meteorological conditions

c) Instrument flight conditions

d) Visual flight rules

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

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

66. Which dangerous attitudes are often combined?

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

67. The altimeter can be checked on the ground by setting...

a) QNE and checking that the indication shows zero on the ground
b) QFF and comparing the indication with the airfield elevation
c) QNH and comparing the indication with the airfield elevation
d) QFE and comparing the indication with the airfield elevation

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

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

69. Information about operational limits, loading and performance about an aircraft can be taken from which document?

a) Airworthiness certificate
b) Operating handbook
c) Certificate of registration
d) Flight Log book

70. What statement is correct with regard to change in temperature?

a) During climb, the carrying gas warms due to thermal exchange with environmental air

b) During descent, the carrying gas warms adiabatically

c) During descent, the carrying gas warms due to thermal exchange with environmental air

d) During climb, the carrying gas warms adiabatically

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Response Scheme

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

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