Exam simulation

BPL Hot-Air Balloon Pilot Licence - Operational Procedures

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STUDENT NAME:	DATE AND TIME:

01. Lower-than-standard temperature may lead to...

a) An altitude indication which is too high

b) An altitude indication which is too low

c) A correct altitude indication as long as the altimeter subscale is set to correct for non-standard temperature

d) A blockage of the Pitot tube by ice, freezing the altimeter indication to its present value

02. What action has to be considered by the pilot of a hot-air balloon with a double-burner installation, in case one burner valve fails?

a) An emergency call should be made

b) Both burner valves have to be shut down immediately

c) The ride has to be stopped immediately

d) The ride can be continued by use of the remaining burner

03. What amount of ignitable mixture can be made from 1 L (0.001 m3) liquid propane gas?

a) 0.38 m3

b) 0.26 m3

c) 12 m3

d) 1.2 m3

04. What conditions are mandatory for the formation of thermal thunderstorms?

a) Absolutely stable atmosphere, high temperature and high humidity

b) Absolutely stable atmosphere, high temperature and low humidity

c) Conditionally unstable atmosphere, high temperature and high humidity

d) Conditionally unstable atmosphere, low temperature and low humidity

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05. While overflying a waypoint, it is stated that a distance of 2 NM has been taken 10 min. What will be the expected time of endurance for the complete distance of 18 NM?

a) 60 min

b) 12 min

c) 180 min

d) 90 min

06. Which of the following statements is correct?

a) The density of hull air is lower with decreasing environmental pressure

b) The density of hull air is higher with increasing environmental pressure

c) The density of hull air is lower than environmental air only if the hull temperature is lower than environmental temperature

d) The density of hull air is lower than environmental air only if the hull temperature is higher than environmental temperature

07. The Empty Mass of a gas balloon includes:

a) Ballast packages, basket, hull, valve and towing rope

b) Basket, burner, ballast packages, hull, net and towing rope

c) Basket, basket ring, valve, net, hull and towing rope

d) Burner, ballast packages, instruments, net and towing rope

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

a) Mode C or S transponder

b) Mode A transponder

c) Transponder approved for airspace "B"

d) Pressure-decoder

09. 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

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10. The hull load of a hot-air balloon is carried by ...

a) By the towing ropes

b) By the top ropes

c) The carrying ropes

d) The fixing ropes

11. 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

12. What must be considered for cross-border flights?

a) Transmission of hazard reports

b) Approved exceptions

c) Regular location messages

d) Requires flight plans

13. At time of take-off, ground wind speed is 2 m/s. Along take-off flight path, at a distance of 320 m obstacles erect up to 30 m. What is the minimum rate of climb to keep a clearance of 50 m above the obstacles? (Consider double the ground wind speed for the flight path)

a) 1 m/s

b) 1.5 m/s

c) 2 m/s

d) 0.5 m/s

14. With pressure and temperature given, any gas being heavier or lighter than air depends on what?

a) On the mean kinetic energy of the molecules

b) On the molecule mass of the gas

c) On the content of water vapour in the gas

d) On the number of gas molecules

15. How many suitably positioned GPS satellites are needed for a basic three-dimensional position solution, without a separate RAIM integrity check?

a) Four

b) Five

c) Two

d) Three

16. A flight level is a...

a) True altitude

b) Density altitude

c) Pressure altitude

d) Altitude above ground

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

a) Ready for start-up

b) Ready for departure

c) Ready

d) Request take-off

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

a) Pressure altitude

b) Altitude above MSL

c) Airfield elevation

d) Height above airfield

19. How should the cold-air inflation fan be positioned for efficient inflation of a hot-air balloon envelope?

a) With as small distance to the balloon opening as possible

b) By evenly swiveling for better air spreading

c) So that its airflow fills the balloon mouth effectively

d) By placing the blower inside the hull

20. A distance of 7.5 cm on an aeronautical chart represents a distance of 60.745 NM in reality. What is the chart scale?

a) 1 : 500000
b) 1 : 1500000
c) 1 : 1000000
d) 1 : 150000

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

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

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

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

23. At time of take-off, ground wind speed is 3 m/s. Along take-off flight path, at a distance of 360 m obstacles erect up to 40 m. What is the minimum rate of climb to keep a clearance of 50 m above the obstacles? (Consider double the ground wind speed for the flight path)

a) 1 m/s
b) 2 m/s
c) 0.5 m/s
d) 1.5 m/s

24. An inversion is a layer ...

a) With increasing pressure with increasing height
b) With increasing temperature with increasing height
c) With constant temperature with increasing height
d) With decreasing temperature with increasing height

25. What is the difference in time when the sun moves 20° of longitude?

a) 1:00 h
b) 1:20 h
c) 0:20 h
d) 0:40 h

26. A wind shear is...

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

27. Which answer contains every state of water found in the atmosphere?

a) Liquid, solid, and gaseous
b) Gaseous and liquid
c) Liquid and solid
d) Liquid

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

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

29. On what frequency shall a blind transmission be made?

a) On a tower frequency
b) On a radar frequency of the lower airspace
c) On the appropriate FIS frequency
d) On the current frequency

30. During a flight in an air mass with a temperature equal to ISA and the QNH set correctly, the indicated altitude is...

a) Equal to the standard atmosphere

b) Lower than the true altitude

c) Equal to the true altitude

d) Higher than the true altitude

31. 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

32. What is meant by the term "terrestrial navigation"?

a) Orientation by instrument readings during visual flight

b) Orientation by ground features during visual flight

c) Orientation by GPS during visual flight

d) Orientation by ground celestial object during visual flight

33. The burning gas is pushed from the liquid gas phase through the riser tube to which component?

a) To the evaporator

b) To the pressure relief device

c) To the fill level indicator

d) To the controller

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

a) QNH

b) QTE

c) QFE

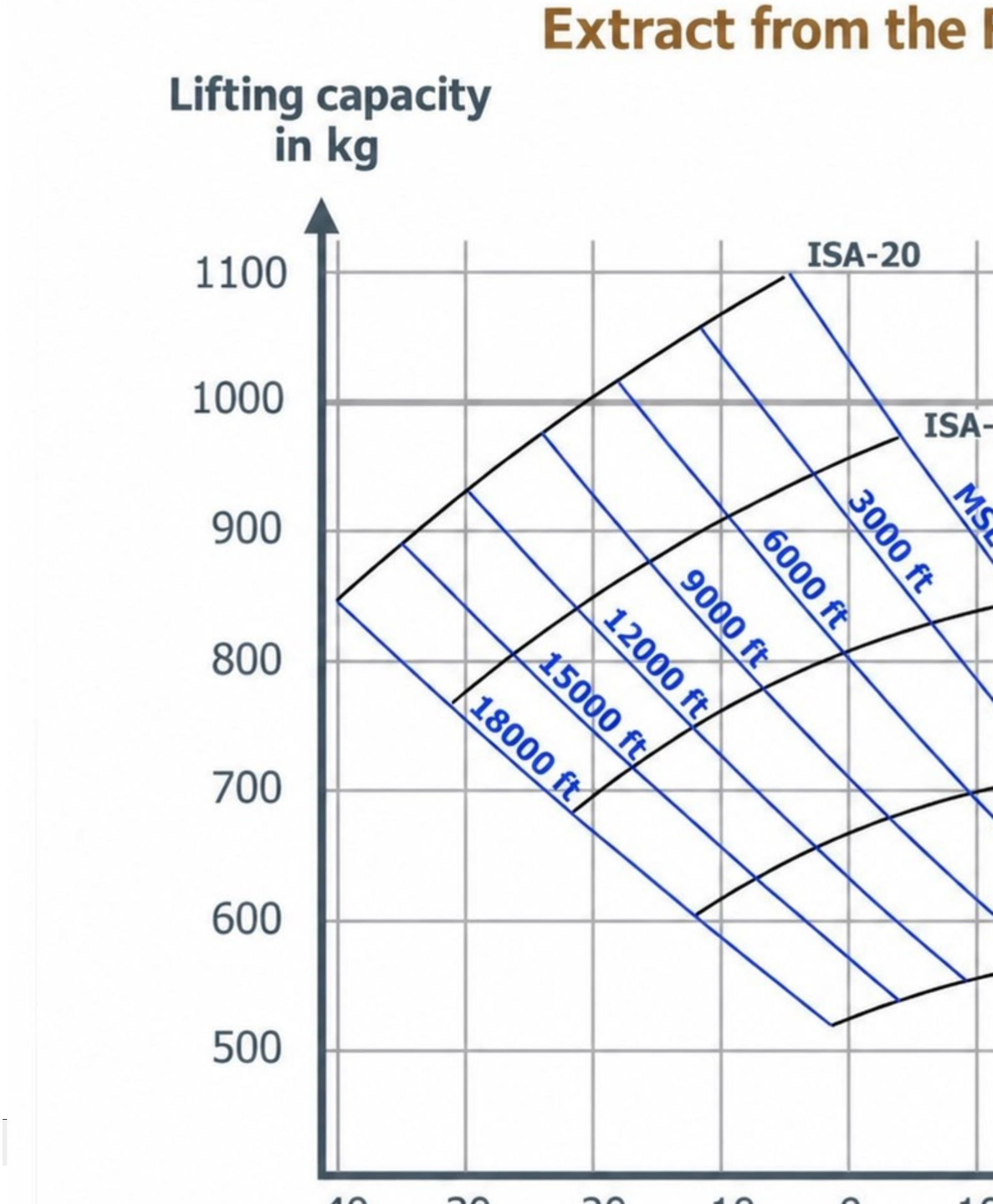
d) QNE

35. Given the following masses: Empty mass 260 kg Instruments 20 kg per gas container (full): 30 kg per person: 80 kg Assuming temperature ISA+10, how many persons may be carried in the basket at maximum, if the hot-air balloon with 4 gas containers has to climb up to pressure altitude 12000 ft ? (use attachment ECQB-PPL_BPL001)

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a) 3
b) 5
c) 4
d) 2

36. Before a balloon flight over water where land may not be reachable for an emergency landing, what must the pilot-in-command determine under BOP.BAS.340?

a) Only whether a lifeboat can replace all individual flotation devices without further assessment
b) Only whether a continuous ATC contact can replace survival equipment
c) The risks to survival after ditching and the need for life-saving and signalling equipment appropriate to those risks
d) Only whether the flight plan contains enough waypoints

37. 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

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

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

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

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

40. The main blast valve is located where?

a) At the main cylinder
b) At the burner
c) At the hull equator
d) At the upper hull part

41. Which of the following messages has the highest priority?

a) Turn left
b) Request QDM
c) QNH 1013
d) Wind 300 degrees, 5 knots

42. What weather phenomena have to be expected around an upper-level trough?

a) Formation of high stratus clouds, ground-covering cloud bases
b) Calm weather, formation of lifted fog layers
c) Development of showers and thunderstorms (Cb)
d) Calm wind, forming of shallow cumulus clouds

43. 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 from an arbitrary point on Earth to the geographical North Pole
c) The angle between the aircraft heading and magnetic north
d) The direction to which the direct reading compass aligns due to earth's and aircraft's magnetic fields

44. 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) The Eustachian tube is blocked
d) All windows are completely closed

45. During a flight at FL 80, the altimeter setting has to be...

a) Local QFE
b) 1013.25 hPa
c) 1030.25 hPa
d) Local QNH

46. The ratio between air pressures at different heights is referred to as:

a) Pressure number
b) Height value
c) Height ratio
d) Height number

47. What frontal line divides subtropical air from polar cold air, in particular across Central Europe?

a) Polar front
b) Warm front
c) Cold front
d) Occlusion

48. What is the best combination of traits with respect to the individual attitude and behaviour for a pilot?

a) Extroverted - stable
b) Introverted - unstable
c) Introverted - stable
d) Extroverted - unstable

49. Times are transmitted as...

a) Standard time
b) Time zone time
c) Local time
d) UTC

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

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

51. Which gas is heavier than air?

a) Hydrogen
b) Propane
c) Helium
d) Illuminating gas

52. What wind conditions should be expected in the vicinity of showers or thunderstorms?

a) Steady wind from direction of shower
b) Steady wind into direction of shower
c) Strong gust from variable directions
d) Calm winds during passage of a shower

53. The vertical speed indicator measures the difference of pressure between...

a) The present dynamic pressure and the static pressure of a previous moment
b) The present total pressure and the total pressure of a previous moment
c) The present dynamic pressure and the dynamic pressure of a previous moment
d) The present static pressure and the static pressure of a previous moment

54. 1000 ft equal...

a) 3000 m
b) 300 m
c) 30 km
d) 30 m

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

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

56. What is the percentage of nitrogen in the atmosphere?

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

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

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

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

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

59. 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

60. At equilibrium the inner overpressure of a free balloon is highest at:

a) At the lower opening

b) The upper pole

c) At the center of the hull

d) At the equator

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

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° 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° to the plane of the equator

62. 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

63. Why should liquid gas bottles for hot-air balloons be transported upright?

a) Because no other positions are approved

b) To prevent damage on the riser tube

c) To prevent exiting of residual gas

d) To keep the armature panel clean

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

a) 05°19'00''

b) 20°28'00''

c) 20.28°

d) 05.19°

65. What is the consequence if the pressure at the burner valve is lower than 0.28 MPa (lower than 2.8 bar)?

a) Take-off is prohibited

b) The gas container should be heated by the flame

c) The heating system may be damaged

d) The pressure in the gas container may be increased by use of acetylene

66. 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?

a) 9 min

b) 6 min

c) 12 min

d) 18 min

67. An aircraft travels 100 km in 56 minutes. The ground speed (GS) equals...

a) 93 kt

b) 198 kt

c) 107 km/h

d) 58 km/h

68. Wake turbulence is particularly strong...

a) When flying at high speeds

b) When flying at low altitudes

c) When flying at low speeds

d) When flying at high altitudes

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

a) Caution areas

b) Recommended areas

c) Operational limits

d) Operational areas

70. In what cases is visibility transmitted in kilometers?

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

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Response Scheme

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

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

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