

# Exam simulation

PPL(H) - Private Pilot License - Navigation



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STUDENT NAME:

DATE AND TIME:

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**01. What factors may indicate a tendency to fog formation?**

- a) Low spread, increasing temperature
- b) Low pressure, increasing temperature
- c) Strong winds, decreasing temperature
- d) Low spread, decreasing temperature

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

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

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**03. What distance corresponds to one degree difference in latitude along any degree of longitude?**

- a) 30 NM
- b) 60 km
- c) 60 NM
- d) 1 NM

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**04. Which statement about the required force to change the pitch angle is correct?**

- a) It is the smallest by using an advance angle of 90°
- b) It is the smallest by using a delta-three-hinge
- c) It must be greater than the rotor disc loading
- d) It must be greater than the tangential force

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**05. According to ICAO Anex 14, which is the colour marking of a runway?**

- a) Green
- b) White
- c) Blue
- d) Yellow

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## 06. Which is the colour of runway end lights?

- a) White
- b) Red
- c) Blue
- d) Green

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## 07. What is the reason for the driving forces in an autorotation?

- a) Downward tilted effective airflow
- b) Low rate of descent
- c) Increased pitch angle
- d) High airspeeds

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## 08. The induced airflow on the rotor of a helicopter in level flight has the greatest value at the...

- a) Rear rotor area.
- b) Advancing rotor blade.
- c) Retreating rotor blade.
- d) Front rotor area.

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## 09. What is shown on the printed sign? See figure (ALW-019) Siehe Anlage 1



- a) Parking position A
- b) Point A on a taxiway
- c) Part A of the runway
- d) Taxiway A

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## 10. The drive system of the autogyro's main rotor is based on...

- a) The speed of the airflow.
- b) A fan in the cabin.
- c) An engine in the cabin.
- d) An engine at the rotor blade tip

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## 11. (For this question, please use annex PFP-062) According ICAO, what symbol indicates a civil airport (not international airport) with paved runway? (2,00 P.) Siehe Anlage 17

- A
- B
- C
- D

PFP-062

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

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## 12. When should turns at low altitudes above villages be avoided with regard to noise abatement procedures?

- a) In horizontal flight
- b) In climb
- c) In descent
- d) During the approach

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**13. The pressure at MSL in ISA conditions is...**

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

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**14. An aircraft must be loaded and operated in such a way that the center of gravity (CG) stays within the approved limits during all phases of flight. This is done to ensure...**

- a) Both stability and controllability of the aircraft.
- b) That the aircraft does not exceed the maximum permissible airspeed during a descent.
- c) That the aircraft does not stall.
- d) That the aircraft does not tip over on its tail while it is being loaded.

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**15. Carbon monoxide poisoning can be caused by...**

- a) Generator failure
- b) Cracks in the heat exchanger.
- c) Fuel or hydraulic fluids.
- d) Pitot icing.

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**16. Under which circumstances is it more likely to accept higher risks?**

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

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**17. Which of the instruments listed below obtain their readings through pressure measurement?**

- a) Oil pressure gauge, fuel pressure gauge, manifold pressure gauge, altimeter, vertical speed indicator, airspeed indicator, suction gauge
- b) Oil pressure gauge, fuel pressure gauge, fuel quantity gauge, manifold pressure gauge, differential pressure gauge, altimeter
- c) Airspeed indicator, vertical speed indicator, altimeter, directional gyro, turn and bank coordinator, oil pressure gauge, fuel pressure gauge
- d) Airspeed indicator, vertical speed indicator, altimeter, magnetic compass, oil pressure gauge, fuel pressure gauge

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18. The position of the center of gravity (including fuel) equals... See figure(PFP-053e) Siehe Anlage 2

ITEM	MASS	ARM
<b>Basic Empty Mass</b>	560 kg	0,35 m
<b>Pilot and Passenger</b>	150 kg	0,4 m
<b>Baggage</b>	15 kg	0,65 m
<b>Fuel</b>	60 l	0,45 m

- a) 0.403 m.
- b) 37.3 cm.
- c) 37.1 cm.
- d) 0.401 m.

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

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

20. Which of the listed radiotelephony messages has a higher priority than a flight safety message?

- a) Meteorological message
- b) Communication related to direction finding
- c) Flight regularity message
- d) Aircraft position report message

21. What needs to be observed regarding ice formation during the flight?

- a) An increase in mass and drag and a significant lift reduction
- b) An increase in both drag and lift coefficient due to a mass increase
- c) An increase in mass and a decrease in drag
- d) An increase in mass and a reduced rate of descent

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**22. The total weight of an aeroplane is acting vertically through the...**

- a) Center of gravity.
- b) Center of pressure.
- c) Neutral point.
- d) Stagnation point.

**23. An aircraft is flying with a true airspeed (TAS) of 120 kt and experiences 35 kt tailwind. How much time is needed for a distance of 185 NM?**

- a) 1 h 12 min
- b) 2 h 11 min
- c) 0 h 50 min
- d) 1 h 32 min

**24. Which air traffic service is responsible for the safe conduct of flights?**

- a) ATC (air traffic control)
- b) ALR (alerting service)
- c) FIS (flight information service)
- d) AIS (aeronautical information service)

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

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

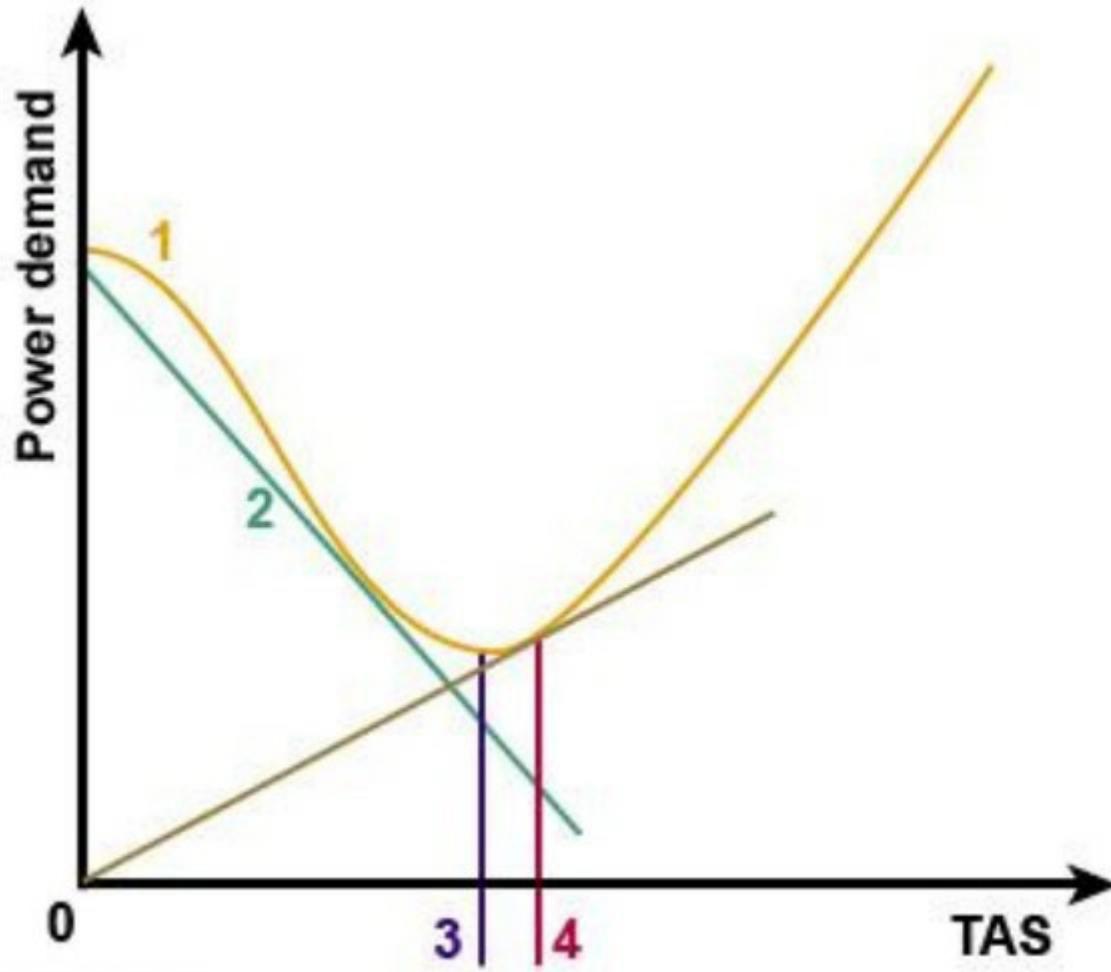
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26. Which point indicates the speed for maximum endurance? See figure (PFP-044) Siehe Anlage 15



**PFP-044**

- a) 1
- b) 4
- c) 2
- d) 3

27. Two aircraft of the same type, same grossweight and same configuration fly at different airspeeds. Which aircraft will cause more severe wake turbulence?

- a) The aircraft flying at lower altitude.
- b) The aircraft flying at slower speed.
- c) The aircraft flying at higher altitude.
- d) The aircraft flying at higher speed.

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**28. The balance arm is the horizontal distance between...**

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

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

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

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**30. Which of the following frequencies is designated for VHF voice communication?**

- a) 118.75 MHz
- b) 327.25 MHz
- c) 327.25 kHz
- d) 118.75 kHz

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**31. Leaving a control frequency (except when reaching the final parking position)...**

- a) Must be approved.
- b) Is not mandatory to be reported.
- c) Must be reported
- d) Must be approved twice.

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**32. Which navigation facility may be used for broadcasting the ATIS?**

- a) NDB
- b) VOR
- c) GPS
- d) DME

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

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

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**34. The Pitot / static system is required to...**

- a) Prevent icing of the Pitot tube.
- b) Measure total and static air pressure.
- c) Correct the reading of the airspeed indicator to zero when the aircraft is static on the ground.
- d) Prevent potential static buildup on the aircraft.

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**35. Which of the following qualities are influenced by stress? 1. Attention 2. Concentration 3. Responsiveness 4. Memory**

- a) 1, 2, 3, 4
- b) ,1, 2, 3
- c) 2, 4
- d) 1

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**36. What shall be considered before terminating a turn in an autorotation?**

- a) The Coriolis force causes an increase in the main rotor rpm
- b) The pitch angle must be decreased by using the collective pitch lever again
- c) The decreasing gravity relieves the main rotor and the helicopter cabin
- d) The flight velocity shall be increased to obtain all the kinetic energy

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**37. Wake turbulence is caused by...**

- a) Jet blast behind a turbine engine.
- b) Turbulence at the downwind side of a mountain range.
- c) Wind shear at the wingtip of an aerofoil.
- d) Pressure compensation at the wingtip of an aerofoil.

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## 38. How are two parallel runways designated?

- a) The left runway gets the suffix "L", the right runway remains unchanged
- b) The left runway gets the suffix "-1", the right runway "-2"
- c) The left runway remains unchanged, the right runway designator is increased by 1
- d) The left runway gets the suffix "L", the right runway "R"

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## 39. What should be observed when taxiing behind a commercial airliner?

- a) To avoid the jet blast, a minimum distance of 200 m should be maintained
- b) To avoid the jet blast, a minimum distance of 600 m should be maintained
- c) To avoid wake turbulence, a minimum distance of 300 m should be maintained
- d) To avoid wake turbulence, a minimum distance of 700 m should be maintained

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## 40. With increasing altitude, the power of a carburettor engine...

- a) Remains constant.
- b) Increases.
- c) Decreases.
- d) First decreases, from 5000 ft on increases.

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## 41. A landing conducted in response to circumstances forcing the aircraft to land is a / an...

- a) Urgent landing.
- b) Precautionary landing.
- c) Field or out landing.
- d) Emergency landing.

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## 42. Which equipment is needed on board of an aircraft to use a VHF direction finder (VDF)?

- a) A relative bearing indicator (RBI)
- b) A VHF radio
- c) At least two VHF aerials
- d) A VDF receiver

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## 43. A risk factor for decompression sickness is...

- a) 100 % oxygen after decompression.
- b) Sports.
- c) Smoking.
- d) Scuba diving prior to flight.

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## 44. Which transponder code indicates a radio failure?

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

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## 45. An aeroplane has a heading of 090°. The distance which has to be flown is 90 NM. After 45 NM the aeroplane is 4.5 NM north of the planned flight path. What is the corrected heading to reach the arrival aerodrome directly?

- a) 6° to the right
- b) 9° to the right
- c) 12° to the right
- d) 18° to the right

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## 46. 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

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## 47. What danger arises for a helicopter during flight through a ground inversion in winter?

- a) Cloud formation above the inversion
- b) Baffling wind conditions
- c) Electrostatic charges
- d) Ice formation below the inversion

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**48. A deceleration during a straight horizontal flight can lead to the illusion of...**

- a) An inverted flight.
- b) A descent.
- c) A climb.
- d) A bank.

**49. 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) Steaming fog
- b) Orographic fog
- c) Radiation fog
- d) Advection fog

**50. Which dangerous attitudes are often combined?**

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

**51. The measurement of altitude is based on the change of the...**

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

**52. Why is it dangerous to pump the throttle for engine start in cold weather?**

- a) It may cause a carburettor fire
- b) Carburettor icing can occur
- c) The oil will become diluted
- d) The engine might start with not enough power

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## 53. The density of AVGAS 100LL at 15° C is...

- a) 1.0 kg/l
- b) 0.72 kg/l.
- c) 0.82 kg/l.
- d) 0.68 kg/l.

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## 54. Which danger exists during engine start?

- a) Sparking
- b) Cable fire
- c) Smoke emission
- d) Carburettor fire

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## 55. In airspace "D" a Boeing 737 and a Cessna 152 are flying on crossing courses. Which aeroplane has to divert?

- a) The aeroplane flying from right to left has priority, the other one has to divert
- b) The Boeing 737, because an airliner has greater power reserves
- c) The air traffic control (ATC) has to decide which one has to divert
- d) The Cessna 152, because IFR and commercial flights have priority

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## 56. What needs to be observed in conjunction with a temporary loss of tail rotor efficiency in a stationary hover?

- a) Vortex ring stage of the tail rotor
- b) Rotating movement in the main rotor direction
- c) Loss of the main rotor thrust
- d) Mechanical blockage of the control

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## 57. Which of the following frequencies is designated for VHF voice communication?

- a) 120.50 MHz
- b) 115.15 MHz
- c) 117.30 kHz
- d) 108.80 MHz

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**58. The power output of a piston engine is limited by...**

- a) Exhaust system.
- b) Main rotor gearbox.
- c) Crankcase.
- d) Centrifugal clutch.

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

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

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**60. What is the most likely reason for the starter not turning when activated?**

- a) The magnetos are defect
- b) The ignition is short-circuited
- c) The rotor break is engaged
- d) The alternator is defect

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**61. What is the meaning of a flashing red light signal at a controlled aerodrome directed to an aircraft on ground?**

- a) Return to starting point
- b) Cleared to taxi
- c) Cleared for take-off
- d) Immediately taxi clear of runway in use

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**62. In case of an emergency ditching, the life vests have to be inflated...**

- a) Before disembarking the aircraft.
- b) After disembarking the aircraft at a safe distance of about 10 m.
- c) During disembarking the aircraft.
- d) After disembarking the aircraft.

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## 63. The temperature lapse rate with increasing height within the troposphere according ISA is...

- a) 3° C / 100 m.
- b) 0,65° C / 100 m.
- c) 0,6° C / 100 m.
- d) 1° C / 100 m.

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## 64. What needs to be observed in conjunction with flying above mountainous terrain?

- a) Unexpected changes in weather and turbulence.
- b) Unexpected overspeed faults and vibrations
- c) Carburettor icing in piston engines
- d) Icing conditions over the predicted freezing level

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

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## 66. In flight, a little smoke emerges from behind the instrument panel. An engine fire is suspected. Which action, with respect to the pilot's operating manual, should be taken?

- a) Turn off the master switch
- b) Turn off the heat
- c) Shut down the engine
- d) Use the fire extinguisher

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## 67. What is the meaning of the abbreviation "TRA"?

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

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**68. Which of the following symptoms may indicate hypoxia?**

- a) Blue discolouration of lips and fingernails
- b) Muscle cramps in the upper body area
- c) Blue marks all over the body
- d) Joint pain in knees and feet

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

- a) Altitude above MSL
- b) Airfield elevation
- c) Pressure altitude
- d) Height above airfield

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**70. The basic empty mass of an aircraft includes...**

- a) The total mass of the aeroplane ready for a specific type of operation including crew, navigation instruments and engine cowling.
- b) The mass of the aeroplane plus standard items such as unusable fuel and other unusable liquids, lubricating oil in engine and auxiliary units, fire extinguishers, pyrotechnics, emergency oxygen equipment, supplementary electronic equipment.
- c) The total mass of an aeroplane ready for a specific type of operation including the required fuel and crew, but excluding traffic load.
- d) The total mass of the aeroplane ready for a specific type of operation excluding unusable fuel and traffic load. The mass includes items such as crew and crew baggage.

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## Response Scheme

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

01: **D**

02: **D**

03: **C**

04: **D**

05: **B**

06: **B**

07: **A**

08: **A**

09: **A**

10: **A**

11: **D**

12: **B**

13: **C**

14: **A**

15: **B**

16: **A**

17: **A**

18: **C**

19: **B**

20: **B**

21: **A**

22: **A**

23: **A**

24: **A**

25: **C**

26: **D**

27: **B**

28: **A**

29: **A**

30: **A**

31: **A**

32: **B**

33: **A**

34: **B**

35: **A**

36: **B**

37: **D**

38: **D**

39: **A**

40: **C**

41: **D**

42: **B**

43: **D**

44: **B**

45: **C**

46: **A**

47: **D**

48: **B**

49: **B**

50: **B**

51: **A**

52: **A**

53: **B**

54: **D**

55: **A**

56: **A**

57: **A**

58: **B**

59: **D**

60: **C**

61: **D**

62: **D**

63: **B**

64: **A**

65: **C**

66: **B**

67: **B**

68: **A**

69: **D**

70: **B**

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## Response form

Use this form to mark your answers

01: \_\_\_\_\_

02: \_\_\_\_\_

03: \_\_\_\_\_

04: \_\_\_\_\_

05: \_\_\_\_\_

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