

# Exam simulation

EASA PPL(A) - Private Pilot License - Aircraft General Knowledge



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**STUDENT NAME:**

**DATE AND TIME:**

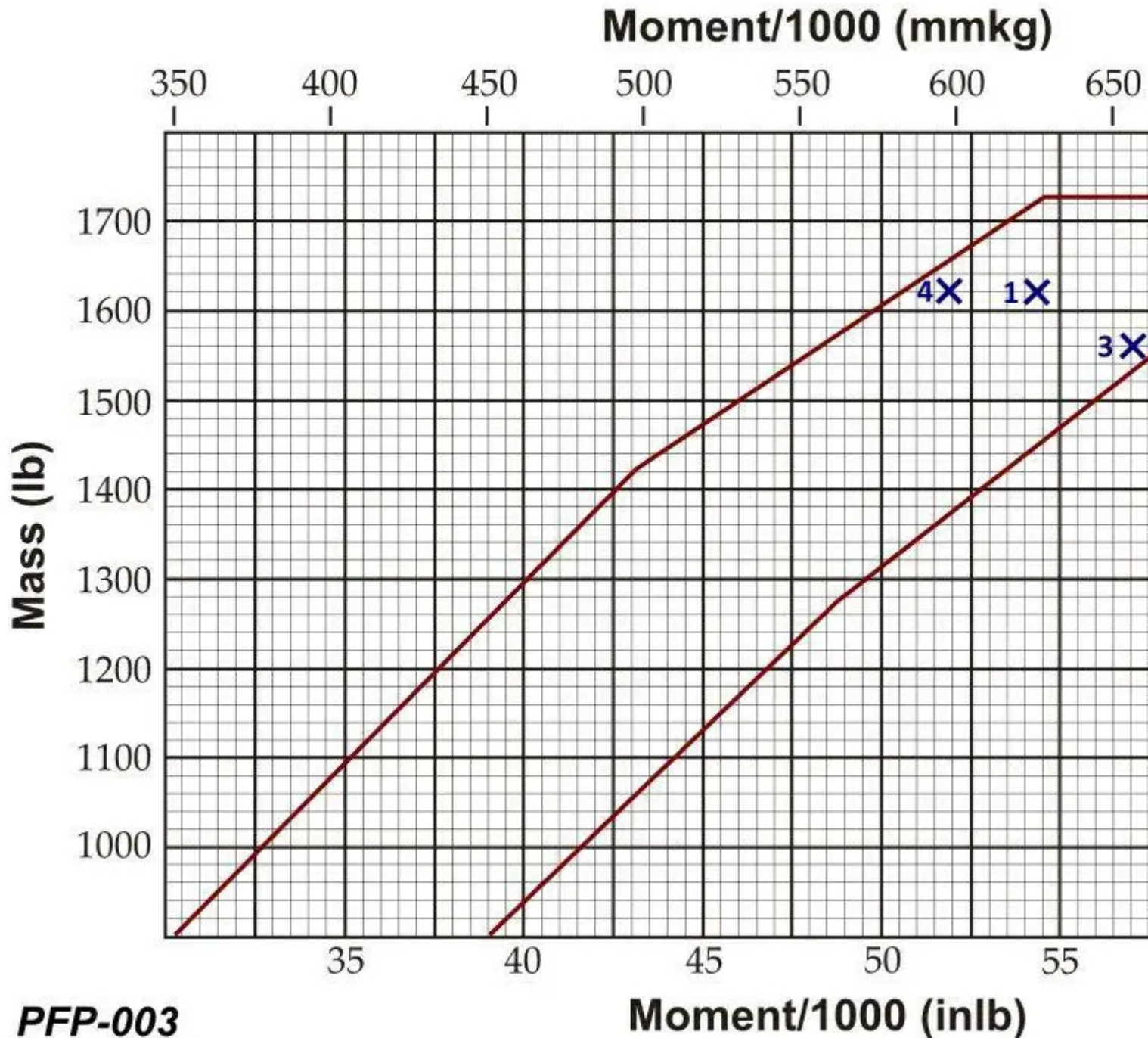
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01. For the purpose of a flight preparation, the pilot calculates a total take-off mass of 750 kg and a total moment of 625 (CG)? See annex (PFP-003)



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

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## 02. The Caution Area is marked on an airspeed indicator by what color?

---

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

## 03. Which answer is correct with regard to separation in airspace "E"?

---

- a) IFR traffic is separated only from VFR traffic
- b) VFR traffic is separated from VFR and IFR traffic
- c) VFR traffic is separated only from IFR traffic
- d) VFR traffic is not separated from any other traffic

## 04. Which are the properties of a Mercator chart?

---

- a) The scale is constant, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- b) The scales increases with latitude, great circles are depicted as curved lines, rhumb lines are depicted as straight lines
- c) The scales 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

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

## 06. What is necessary for the determination of speed (IAS) by the airspeed indicator?

---

- a) The difference between the total pressure and the dynamic pressure
- b) The difference between the standard pressure and the total pressure
- c) The difference between the total pressure and the static pressure
- d) The difference between the dynamic pressure and the static pressure

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**07. Assume two arbitrary points A and B on the same parallel of latitude, but not on the equator. Point A is located on 010°E and point B on 020°E. The rhumb line distance between A and B is always...**

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- a) More than 600 NM.
- b) Less than 600 NM.
- c) More than 300 NM.
- d) Less than 300 NM.

**08. In what different ways can a risk be handled appropriately?**

---

- a) Extrude, avoid, palliate, transfer
- b) Ignore, accept, transfer, extrude
- c) Avoid, reduce, transfer, accept
- d) Avoid, ignore, palliate, reduce

**09. Visual illusions are mostly caused by...**

---

- a) Rapid eye movements.
- b) Misinterpretation of the brain.
- c) Colour blindness.
- d) Binocular vision.

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

---

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

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

---

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

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**12. What is the distance between the two parallels of longitude 150°E and 151°E along the equator?**

---

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

**13. What does a readability of 1 indicate?**

---

- a) The transmission is perfectly readable
- b) The transmission is unreadable
- c) The transmission is readable but with difficulty
- d) The transmission is readable now and then

**14. Stabilization around the lateral axis during cruise is achieved by the...**

---

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

**15. Regarding the type of cloud, precipitation is classified as...**

---

- a) Light and heavy precipitation.
- b) Showers of snow and rain.
- c) Prolonged rain and continuous rain.
- d) Rain and showers of rain.

**16. A flight plan has been filed for a flight departing at an uncontrolled aerodrome. When has the actual take-off time been transmitted to ATC?**

---

- a) Upon request from ATC.
- b) When landing is assured.
- c) Immediately after take-off.
- d) At deviation from expected off-block time by more than 15 min.

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## 17. Which are the properties of a Lambert conformal chart?

---

- a) Great circles are depicted as straight lines and the chart is an equal-area projection
- b) The chart is conformal and an equal-area projection
- c) The chart is conformal and nearly true to scale
- d) Rhumb lines are depicted as straight lines and the chart is conformal

## 18. An acceleration during a straight horizontal flight can lead to the illusion of...

---

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

## 19. What is the mean height of the tropopause according to ISA (ICAO Standard Atmosphere)?

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- a) 18000 ft
- b) 11000 ft
- c) 11000 m
- d) 36000 m

## 20. Which of the following options states all primary flight controls of an aircraft?

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- a) All movable parts on the aircraft which aid in controlling the aircraft
- b) Flaps, slats, speedbrakes
- c) Elevator, rudder, aileron
- d) Elevator, rudder, aileron, trim tabs, high-lift wing devices, power controls

## 21. Which parts of an aircraft mainly affect the generation of induced drag?

---

- a) The front part of the fuselage.
- b) The wing tips.
- c) The lower part of the gear.
- d) The outer part of the ailerons.

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**22. In which outside air temperature is icing most likely?**

---

- a) Between -5° C and +20° C
- b) Between -10° C and +10° C
- c) Between -20° C and +5° C
- d) Between -15° C and 0° C

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

---

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

**24. The connection between middle ear and nose and throat region is called...**

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- a) Eardrum.
- b) Cochlea.
- c) Inner ear.
- d) Eustachian tube.

**25. With increasing altitude, the power of a carburettor engine...**

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

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26. Given the following conditions, the fuel consumption equals... Pressure altitude: 2000 ft Temperature: 31° C RPM: 2400

**PFP-012**

## Performance

Aircraft mass: 785 kg

| Pressure Altitude [ft] | RPM  | 20°C below ISA |          |          | ISA     |          |          | BHP [%] |
|------------------------|------|----------------|----------|----------|---------|----------|----------|---------|
|                        |      | BHP [%]        | TAS [kt] | FF [l/h] | BHP [%] | TAS [kt] | FF [l/h] |         |
| 2000                   | 2500 | 73             | 110      | 25,1     | 70      | 108      | 24,0     | 67      |
|                        | 2400 | 69             | 103      | 22,8     | 65      | 102      | 21,7     | 62      |
|                        | 2300 | 62             | 97       | 20,5     | 59      | 95       | 19,7     | 56      |
|                        | 2200 | 54             | 90       | 18,3     | 51      | 88       | 17,4     | 48      |
|                        | 2100 | 48             | 85       | 16,9     | 45      | 84       | 15,6     | 41      |
| 4000                   | 2500 | 70             | 109      | 24,1     | 68      | 106      | 22,1     | 66      |
|                        | 2400 | 66             | 100      | 21,4     | 63      | 102      | 19,6     | 61      |
|                        | 2300 | 58             | 94       | 19,5     | 56      | 95       | 18,4     | 55      |
|                        | 2200 | 51             | 89       | 17,6     | 47      | 85       | 16,7     | 43      |
|                        | 2100 | 46             | 84       | 15,5     | 41      | 83       | 15,1     | 38      |
| 6000                   | 2600 | 70             | 110      | 23,9     | 67      | 105      | 22,5     | 66      |
|                        | 2500 | 64             | 98       | 20,5     | 61      | 97       | 19,6     | 60      |
|                        | 2400 | 56             | 92       | 18,7     | 55      | 91       | 18,3     | 54      |
|                        | 2300 | 48             | 87       | 16,9     | 46      | 85       | 16,5     | 44      |
|                        | 2200 | 44             | 83       | 15,1     | 40      | 80       | 15,0     | 39      |

- a) 19.5 l/h.
- b) 19.1 l/h.
- c) 21.7 l/h
- d) 22.8 l/h

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**27. The term ,magnetic course' (MC) is defined as...**

---

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

**28. Which part of the visual system is responsible for colour vision?**

---

- a) Cones
- b) Rods
- c) Macula
- d) Blind spot

**29. What range can be achieved at the following conditions? Outside air temperature: 6° C Pressure Altitude: 6000 ft Pow**

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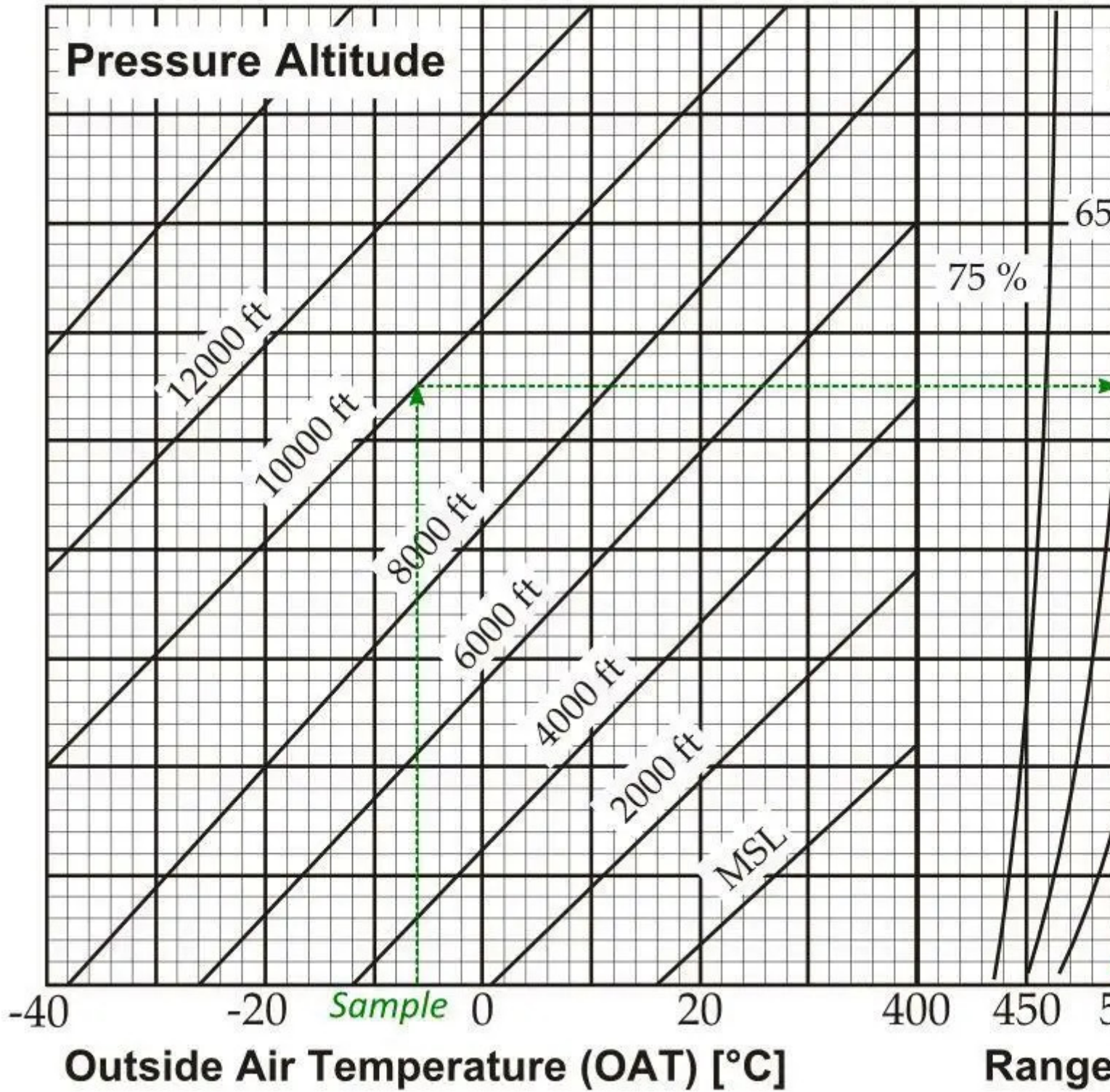
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## PFP-013



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- a) 457 NM
- b) 503 NM
- c) 444 NM
- d) 482 NM

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## 30. The aerodynamic rudder balance...

---

- a) Improves the rudder effectiveness.
- b) Reduces the control surfaces.
- c) Reduces the control stick forces.
- d) Delays the stall.

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

---

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

## 32. What weather is likely to be experienced during "Foehn" in the Bavarian area close to the Alps?

---

- a) High pressure area overhead Bay of Biscay and low pressure area in Eastern Europe
- b) Cold, humid downhill wind on the lee side of the Alps, flat pressure pattern
- c) Nimbostratus cloud in the northern Alps, rotor clouds at the windward side, warm and dry wind
- d) Nimbostratus cloud in the southern Alps, rotor clouds at the lee side, warm and dry wind

## 33. Which of the items below may have an influence on the noise perceived by a person on the ground? 1) Engine power setting 2) Propeller revolutions per minute 3) Position of the landing gear 4) Flap position 5) Flight track 6) Height above ground 7) Flight rules

---

- a) 1, 2, 3, 4, 5, 6
- b) 1, 5, 6
- c) 1, 5, 6, 7
- d) 3, 4, 5, 6, 7

## 34. What kind of information should be included in an urgency message?

---

- a) Nature of problem or observation, important information for support, departure aerodrome, information about position, heading and altitude
- b) Intended routing, important information for support, intentions of the pilot, information about position, departure aerodrome, heading and altitude
- c) Nature of problem or observation, important information for support, intentions of the pilot, information about position, heading and altitude
- d) Intended routing, important information for support, intentions of the pilot, departure aerodrome, destination aerodrome, heading and altitude

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**35. With increasing altitude and unchanged mixture setting, the air/fuel mixture...**

---

- a) Becomes more lean
- b) Stays constant
- c) Becomes liquid
- d) Becomes richer

**36. "Longitudinal stability" is referred to as stability around which axis?**

---

- a) Propeller axis
- b) Vertical axis
- c) Longitudinal axis
- d) Lateral axis

**37. The bank angle of a 2-minutes circle depends on the...**

---

- a) CAS
- b) IAS
- c) Ground speed
- d) TAS

**38. After a precautionary landing the brakes and wheels are very hot. In which way should the pilot approach them?**

---

- a) From the right or left side
- b) At an angle of 45°
- c) From the front or back side
- d) From the front, right or left side

**39. How is the balance of forces affected during a turn?**

---

- a) Lift force must be increased to compensate for the sum of centrifugal and gravitational force
- b) The net force results from superposition of gravity and centripetal forces
- c) The horizontal component of the lift force during a turn is the centrifugal force
- d) A lower lift force compensates for a lower net force as compared to level flight

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## 40. What are the minimum requirements among others to acquire a rating for VFR night flights?

---

- a) At least 10 additional flight hours at night, three of them with a flight instructor with at least 1 hour cross-country flight plus 5 solo take-offs and full-stop landings
- b) At least 5 additional flight hours at night, four of them with a flight instructor with at least 1 hour cross-country flight plus 5 solo take-offs and full-stop landings
- c) At least 5 additional flight hours at night, three of them with a flight instructor with at least 1 hour cross-country flight plus 5 solo take-offs and full-stop landings
- d) At least 5 additional flight hours at night, three of them with a flight instructor with at least 1 hour cross-country flight plus 10 solo take-offs and full-stop landings

## 41. Which transponder code indicates a loss of radio communication?

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- a) 2000
- b) 7700
- c) 7000
- d) 7600

## 42. What devices can be affected by a failure of the electrical system in a helicopter?

---

- a) Fuel quantity indication, radio equipment and altimeter
- b) Radio equipment, navigation equipment and magnetic compass
- c) Airspeed indicator, altimeter and artificial horizon
- d) Radio equipment, navigation equipment and gyros

## 43. Which kind of engine is susceptible to carburettor fire?

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- a) Piston engines
- b) Turbine engines
- c) Electric motors
- d) Turboprop engines

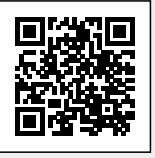
## 44. What information can be obtained from satellite images?

---

- a) Temperature and dew point of environmental air
- b) Turbulence and icing
- c) Flight visibility, ground visibility, and ground contact
- d) Overview of cloud covers and front lines

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**45. What does the term "Red-out" mean?**

- a) "Red vision" during negative g-loads
- b) Rash during decompression sickness
- c) Anaemia caused by an injury
- d) Falsified colour perception during sunrise and sunset

---

**46. Which statement about the airflow around an aerofoil is correct if the angle of attack increases?**

- a) The stagnation point moves down
- b) The center of pressure moves down
- c) The center of pressure moves up
- d) The stagnation point moves up

---

**47. The term "inclination" is defined as...**

- a) Deviation induced by electrical fields
- b) Angle between airplane's longitudinal axis and true north
- c) Angle between earth's magnetic field lines and horizontal plane
- d) Angle between magnetic and true north

---

**48. Which answer states a risk factor for diabetes?**

- a) Overweight
- b) Smoking
- c) Sleep deficiency
- d) Alcohol consumption

---

**49. Which of the following options is NOT a sufficient reason to fly below the required minimum height?**

- a) Take-off or landing at an aerodrome
- b) An approach without landing at an aerodrome
- c) Bad weather conditions in the vicinity of an aerodrome
- d) The drop of towed objects at an aerodrome

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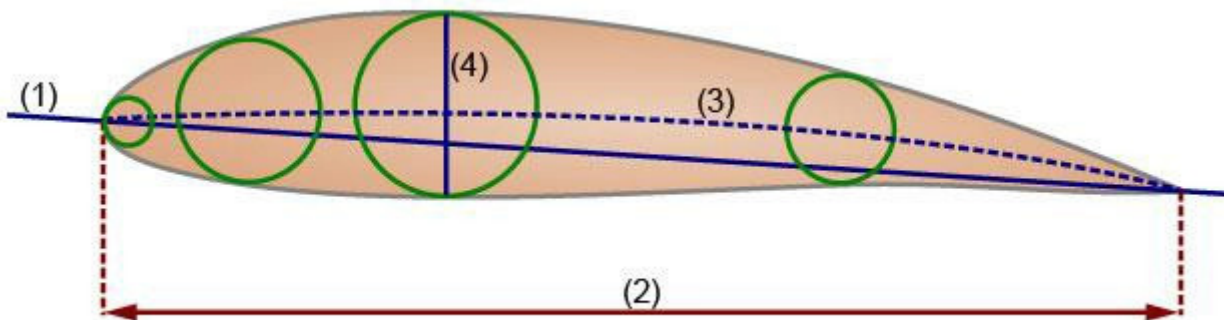


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50. When transmitter and receiver are moving towards each other...

- a) The frequency varies, but the wavelength remains constant
- b) The perceived frequency equals the transmitted frequency
- c) The perceived frequency increases
- d) The perceived frequency decreases

51. Number 3 in the drawing corresponds to the... See figure (PFA-010)



PFA-010

- a) Chord
- b) Thickness
- c) Camber line
- d) Chord line

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

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

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

- a) Maritime tropical air
- b) Continental tropical air
- c) Continental polar air
- d) Maritime polar air

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## 54. What is the purpose of winglets?

---

- a) Increase gliding performance at high speed
- b) Increase of lift and turning manoeuvring capabilities
- c) To increase efficiency of aspect ratio
- d) Reduction of induced drag

## 55. Rudder deflections result in a turn of the aeroplane around the...

---

- a) Rudder axis.
- b) Lateral axis.
- c) Vertical axis.
- d) Longitudinal axis.

## 56. What is the unit for voltage?

---

- a) Ampere
- b) Watt
- c) Ohm
- d) Volt

## 57. What is the correct way of establishing radio communication between D-EAZF and Dusseldorf Tower?

---

- a) Dusseldorf Tower over
- b) DEAZF is calling Dusseldorf Tower
- c) Dusseldorf Tower D-EAZF
- d) Tower from D-EAZF

## 58. The ongoing process to monitor the current flight situation is called...

---

- a) Constant flight check.
- b) Situational thinking.
- c) Anticipatory check procedure.
- d) Situational awareness.

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**59. An aircraft is flying at FL 75 with an outside air temperature (OAT) of -9°C. The QNH altitude is 6500 ft. The true altitude equals...**

---

- a) 6500 ft.
- b) 6750 ft.
- c) 7000 ft.
- d) 6250 ft.

**60. What structural item provides lateral stability to an airplane?**

---

- a) Differential aileron deflection
- b) Wing dihedral
- c) Vertical tail
- d) Elevator

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

---

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

**62. What action should be taken when entering a windshear? 1. Reduce speed 2. Retract gear and flaps 3. Maintain current configuration 4. Adjust thrust**

---

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

**63. What is meant by "isothermal layer"?**

---

- a) An atmospheric layer where temperature increases with increasing height
- b) An atmospheric layer where temperature decreases with increasing height
- c) A boundary area between two other layers within the atmosphere
- d) An atmospheric layer with constant temperature with increasing height

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**64. A vertical speed indicator connected to a too big equalizing tank results in...**

---

- a) No indication
- b) Mechanical overload
- c) Indication too low
- d) Indication too high

**65. What happens during oil filter clogging?**

---

- a) A bypass valve opens thus enabling the circulation to continue, debris will be filtered by an alternate filter
- b) The oil circulation will end after 15 minutes so that a proper engine run will not be guaranteed
- c) A bypass valve opens thus enabling the circulation to continue, debris will not be filtered
- d) The oil circulation will end after 30 minutes so that a proper engine run will not be guaranteed

**66. What is the correct frequency for an initial distress message?**

---

- a) Emergency frequency
- b) Current frequency
- c) FIS frequency
- d) Radar frequency

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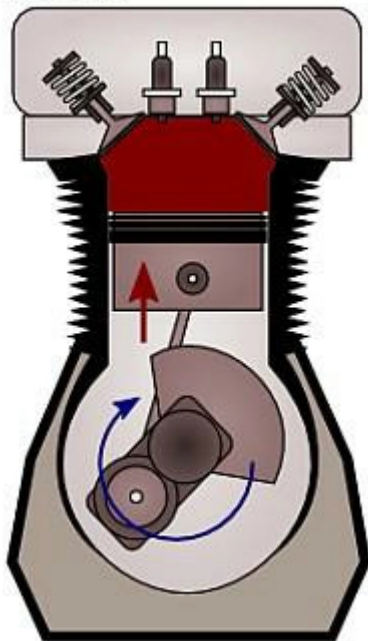
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67. Which part of the cycle of a four-stroke Otto engine can be seen in the attachment? See figure (AGK-008)

AGK-008



- a) Second stroke - compression
- b) Third stroke - power
- c) Fourth stroke - exhaust
- d) First stroke - induction

68. What is the correct term for the system which, among others, controls breathing, digestion, and heart frequency?

- a) Critical nervous system
- b) Autonomic nervous system
- c) Automatical nervous system
- d) Compliant nervous system

69. An aircraft in the northern hemisphere intends to turn on the shortest way from a heading of 030° to a heading of 180°. At approximately which indicated magnetic heading should the turn be terminated?

- a) 360°.
- b) 150°.
- c) 210°.
- d) 180°.

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**70. Given values: Calculated take-off mass = 746 kg calculated CG = 37.1 cm fuel burn = 30.5 l on station 45 cm.  
Where is the CG situated after the landing?**

---

- a) 37.2 cm
- b) 37.5 cm
- c) 36.3 cm
- d) 36.9 cm

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## Response Scheme

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

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

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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: _____ |           |           |