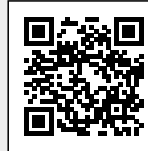


# Simulazione di Esame

Operational Procedures - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

## 01. Clouds, fog or dew will always be formed when:

- a) Water vapour condenses.
- b) Temperature and dew point are nearly equal.
- c) Relative humidity reaches 98%.
- d) Water vapour is present.

## 02. Given: $X$ = Distance A to point of equal time (PET) between A and B $E$ = Endurance $D$ = Distance A to B $O$ = Groundspeed 'on' $H$ = Groundspeed 'back' The formula for calculating the distance $X$ to point of equal time (PET) is:

- a)  $X = D \times H / (O + H)$
- b)  $X = D \times O \times H / (O + H)$
- c)  $X = E \times H / (O + H)$
- d)  $X = D \times O / (O + H)$

## 03. Which phrase shall be used if you want to say: 'Pass me the following information...':

- a) Request
- b) Say again
- c) Report
- d) Check

## 04. On an aeroplane without central fuel tank, the maximum Zero Fuel Mass is related to:

- a) The bending moment at the wing root.
- b) Variable equipment for the flight.
- c) Wing loaded trip fuel.
- d) Maximum Structural Take-Off Mass.

# Simulazione di Esame

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**05. When the term 'CAVOK' is used in an aviation routine weather report (METAR), the values of visibility and clouds are:**

---

- a) Visibility 10 km or more, no clouds below 5000 feet/GND
- b) Visibility more than 5000 m, no clouds below 1500 m/GND
- c) Visibility more than 8 km, no clouds below 3000 feet/GND
- d) Visibility 10 km or more, no clouds below 1500 feet/GND

**06. How shall a pilot inform the control tower that they have to abandon the take-off manoeuvre:**

---

- a) Stopping
- b) Cancelling take-off
- c) Aborting take-off
- d) Abandoning take-off

**07. The priority of the instruction 'taxi to runway 05' is:**

---

- a) The same as 'line-up runway 07 and wait'.
- b) Less than 'cleared to land'.
- c) Greater than 'caution, construction work left of taxiway'.
- d) Greater than 'transmit for QDM'.

**08. An island appears 30° to the left of the centre line on an airborne weather radar display. What is the true bearing of the aircraft from the island if at the time of observation the aircraft was on a magnetic heading (MH) of 020° with the magnetic variation (VAR) 25°W?**

---

- a) 195°
- b) 145°
- c) 325°
- d) 205°

**09. Departure procedure - Design** The main factor/s that dictate/s in general the design of an instrument departure procedure is/are:

---

- a) ATC availability and requirements.
- b) Availability of navigation aids.
- c) The terrain surrounding the aerodrome.
- d) Airspace restrictions applicable and in force.

# Simulazione di Esame

Operational Procedures - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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## 10. In the NAVSTAR/GPS satellite navigation system, receiver clock error:

---

- a) Is the biggest part of the total error
- b) It cannot be corrected
- c) Can be minimised by synchronisation of the receiver clock with the satellite clocks
- d) Is corrected by using signals from four satellites

## 11. Comparing a forward CG position with an aft one, the forward cg position will cause a

---

- a) Decrease in the landing speed.
- b) Decrease in range.
- c) Tendency to yaw to the right on take-off.
- d) Decrease of the stalling speed.

## 12. Where is the centre of gravity of the aeroplane in the diagram?

---

- a) 26.57 cm forward of datum.
- b) 32.29 cm aft of datum.
- c) 26.57 cm aft of datum.
- d) 32.29 cm forward of datum.

## 13. What does the word 'acknowledge' mean?

---

- a) Pass me the following information
- b) Repeat all of this message back to me exactly as received
- c) Let me know that you have received and understood this message
- d) Repeat all of your last transmission

## 14. Modern pressurized transport airplanes are equipped with:

---

- a) Only Portable Oxygen Bottles.
- b) Two independent oxygen systems, one supplying the cockpit, the other the cabin.
- c) Two oxygen systems both supplying the cockpit and the cabin.
- d) Only One Oxygen System Supplying The Whole Aircraft.

# Simulazione di Esame

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## 15. What does the word 'wilco' mean?

---

- a) I read you five
- b) I have received all of your last transmission
- c) As communication is difficult, I will call you later
- d) I understand your message and will comply with it

## 16. Air at an altitude of 18.000 feet contains, approximately:

---

- a) 15% oxygen
- b) 5% oxygen
- c) 10% oxygen
- d) 21% oxygen

## 17. A shining light is fading out (i. e. when flying into fog, dust or haze). What kind of illusion could the pilot get?

---

- a) The source of light stands still
- b) The source of light is approaching him with increasing speed
- c) The source of light moves away from him
- d) The light source will make the pilot believe, that he is climbing

## 18. Vision of terrain relief (e.g. hills, valleys, etc.):

---

- a) Is impossible with only one eye
- b) Is possible at only at distances over 200 m due to binocular vision
- c) Is based on binocular vision at short distances and the rules of proportion and perspective for objects that are further away
- d) Is impossible if a pilot wears sunglasses

## 19. Urgency is defined as:

---

- a) A condition concerning the safety of an aircraft other vehicles or of a person on board, but which does not require immediate assistance
- b) A condition of being threatened by serious and/or imminent danger and of requiring immediate assistance
- c) A condition concerning the attitude of an aircraft when intercepting the localizer during an ILS approach
- d) A condition concerning the safety of a person on board or within sight and requiring immediate assistance

# Simulazione di Esame

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**20. For an aircraft flying a true track of 360° between the 5°S and 5°N parallels, the precession error of the directional gyro due to apparent drift is equal to:**

---

- a) -5°/hour
- b) +5°/hour
- c) 15°/hour
- d) Approximately 0°/hour

**21. The reason why pre take-off holding areas are sometimes further from the active runway when ILS Category 2 and 3 landing procedures are in progress than during good weather operations is:**

---

- a) Heavy precipitation may disturb guidance signals
- b) Aircraft manoeuvring near the runway may disturb guidance signals
- c) To increase aircraft separation in very reduced visibility conditions
- d) 156 NM

**22. An aircraft encountering radio communication failure on an IFR flight in IMC has to hold over the designated navigation aid serving the destination aerodrome:**

---

- a) 5 minutes in any case
- b) Under no circumstances
- c) 3 minutes, if an expected approach time is not acknowledged
- d) Until the expected approach time last received and acknowledged

**23. Refer to the General Student Pilot Route Manual - VFR Chart ED-4 Which navigation aid is located in position 48°30'N, 007°34'E?**

---

- a) NDB
- b) VOR/DME
- c) TACAN
- d) VOR

**24. Given: Distance from departure to destination 140 NM GS Out 90 ktGS Home 80 kt What is the distance of the PET from the departure point?**

---

- a) 66 NM
- b) 124 NM
- c) 70 NM
- d) 74 NM

# Simulazione di Esame

Operational Procedures - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**25. What are the effects, if any, of shadowing by parts of the aircraft (e.g. wing) on the reception of signals from NAVSTAR/GPS satellites?**

---

- a) The signals will be distorted, however the error can be corrected for using an algorithm and information from unaffected signals
- b) It causes multipath propagation
- c) It has no influence because high frequency signals are unaffected
- d) It checks the ground station accuracy using a built-in test programme

**26. Definitions What is:** A manoeuvre in which a turn is made away from a designated track followed by a turn in the opposite direction to permit the aircraft to intercept and proceed along the reciprocal of the designated track:

---

- a) Race track.
- b) Base turn.
- c) Reversal track.
- d) Procedure turn.

**27. PART-CAT OPS 1.465 (VFR Operating minima), establishes that, the operator shall ensure about VFR flights, that:**

---

- a) For conducted VFR flights in airspace F, vertical distance from clouds is 250 m at least
- b) For conducted VFR flights in airspace B, horizontal distance from clouds is 1 000 m at least
- c) For conducted VFR flights in airspace E, flight visibility at and above 3 050 m. (10 000 ft) is 5 km at least (clear of cloud)
- d) Special VFR flights are not commenced when visibility is less than 3 km

**28. Which cloud type may indicate the presence of severe turbulence?**

---

- a) Stratocumulus
- b) Cirrocumulus
- c) Altocumulus lenticularis
- d) Nimbostratus

**29. The purpose of the proximity of the emergency evacuation path marking system is to:**

---

- a) Mark Only The Thresholds Exits.
- b) Replace the overhead emergency lighting in case of failure.
- c) Guide the emergency evacuation during night only.
- d) Give additional guidance during an emergency evacuation with a thick smoke.

# Simulazione di Esame

Operational Procedures - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**30. According to CS 25 the landing reference speed VREF may not be less than:**

---

- a) 1.23 VSRO and must be maintained down to 50' height
- b) 1.2 VMCA
- c) 1.23 VSRO for turbojet powered and 1.3 for turboprop powered aeroplanes
- d) VSRO and must be maintained down to 35' height

**31. The ground - air visual signal code for use by survivors on ground to indicate "AFIRMATIVE" is (search and rescue signals):**

---

- a) Y
- b) V
- c) X
- d) N

**32. In an ATC flight plan Item 15, in order to define a position as a bearing and distance from a VOR, the group of figures should consist of:**

---

- a) VOR ident, true bearing and distance in kilometres
- b) VOR ident, magnetic bearing and distance in kilometres
- c) VOR ident, magnetic bearing and distance in nautical miles
- d) Full name of VOR, true bearing and distance in kilometres

**33. In relation to an aircraft, the term ' Basic Empty Mass' includes the mass of the aircraft structure complete with its powerplants, systems, furnishings and other items of equipment considered to be an integral part of the particular aircraft configuration. Its value is**

---

- a) Found in the latest version of the weighing schedule as corrected to allow for modifications.
- b) Printed in the loading manual and includes unusable fuel.
- c) Found in the flight manual and is inclusive of unusable fuel plus fluids contained in closed systems.
- d) Inclusive of an allowance for crew, crew baggage and other operating items. It is entered in the loading manifest.

**34. Mental schemes correspond to:**

---

- a) Memorised representations of the various procedures and situations which can be reactivated by the pilot at will
- b) Daily planning of probable dangerous situations
- c) Memorised procedures which develop and change rapidly during change-over to a new machine
- d) The memorisation of regulatory procedures associated with a particular situation

# Simulazione di Esame

Operational Procedures - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**35. One purpose of compass calibration is to determine the deviation:**

---

- a) On any heading
- b) On N, S, E and W only
- c) At any latitude
- d) On a given heading

**36. If the pressure in the cabin tends to become lower than the outside ambient air pressure the:**

---

- a) Negative pressure relief valve will open.
- b) Air cycle machine will stop.
- c) Outflow valve open completely.
- d) Negative Pressure Relief Valve Will Close

**37. Before Transmitting the pilot should:**

---

- a) Make sure that the aircraft is levelled off.
- b) Make sure that the emergency frequency is tuned in at the same time.
- c) Listen out on the frequency to ensure no interference with another station already transmitting will occur.
- d) Always write the message and read it during the transmission.

**38. The magnetic heading can be derived from the true heading by means of a:**

---

- a) Map showing the isoclinic lines
- b) Deviation correction curve
- c) Map showing the isogonal lines
- d) Compass swinging curve

**39. A gravity type erector is used in a vertical gyro device to correct errors on:**

---

- a) A directional gyro unit
- b) An artificial horizon
- c) A gyromagnetic indicator
- d) A turn indicator



# Simulazione di Esame

Operational Procedures - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**40. An aircraft is flying north-east at 2500 feet. TOWER requests heading and level. What is the correct response:**

---

- a) Heading north-east at level 25
- b) Heading 045 at 2500 feet
- c) 045 and 2500
- d) Heading 45 at 2500 feet

**41. When the centre of gravity is at the forward limit, an aeroplane will be:**

---

- a) Extremely stable and require small elevator control to change pitch.
- b) Extremely stable and will require excessive elevator control to change pitch.
- c) Extremely unstable and require small elevator control to change pitch.
- d) Extremely unstable and require excessive elevator control to change pitch.

**42. From your cruising altitude at FL 240, you want to descend to flight level 100. Your transmission to the radar controller is:**

---

- a) Request descent to flight level one-zero-zero
- b) We would like to start descent to flight level one-zero-zero
- c) Request to descend one-hundred
- d) Request flight level one-hundred

**43. What type of clouds are associated with rain showers ?**

---

- a) Towering cumulus and altostratus.
- b) Towering cumulus and cumulonimbus.
- c) Nimbostratus.
- d) Altostratus and stratus.

**44. OPS 1 establishes that, a co-pilot is not assigned to operate at the flight controls during take-off and landing unless:**

---

- a) He has carried out as pilot-in-command or as co-pilot at least three take-off and three landings in an aeroplane or an approved flight simulator of the type used, in the preceding 90 days.
- b) He has operated as pilot-in-command or as co-pilot at the controls during take-off and landing of the type to be used in the preceding 90 days.
- c) He has carried out as-pilot-in-command or as co-pilot at least three take-off and three landings in an aeroplane or an approved flight simulator of the type used, in the preceding 30 days
- d) He has carried out at least three flights as pilot-in-command or as a co-pilot at the controls of the type to be used, in the preceding 90 days.

# Simulazione di Esame

Operational Procedures - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**45. An aircraft operating within MNPS Airspace is unable to continue flight in accordance with its air traffic control clearance, but is able to maintain its assigned level, and due to a total loss of communications capability, cannot obtain a revised clearance from ATC. The aircraft should leave its assigned route or track by turning 90° (90 degrees) to the right or left whenever this is possible, and turn to acquire and maintain in either direction a track laterally separated by 30 NM from its assigned route and climb 1 000 ft or descend 500 ft, if:**

---

- a) Above FL 410
- b) At FL410
- c) The aircraft should leave its assigned route or track by turning 90° (90 degrees) to the right or left whenever this is possible, and turn to acquire and maintain in either direction a track laterally separated by 30 NM from its assigned route and climb 1 000 ft or descend 500 ft, if: above FL 410 at FL410 at FL 430
- d) Below FL 410

**46. When determining the maximum landing mass of an turbojet powered aeroplane during the planning phase what factor must be used on the landing distance available (dry runway)**

---

- a) 115/100
- b) 1.67
- c) 0.60
- d) 60/115

**47. One of the advantages of a turbocharger is:**

---

- a) That There Is No Torsion At The Crankshaft.
- b) That is has a better propulsive efficiency.
- c) That there is no danger of detonation.
- d) To make the power available less dependent on altitude.

**48. A "Bourdon tube" is used in:**

---

- a) Smoke detectors.
- b) Vibration detectors.
- c) Turbine temperature probes.
- d) Pressure sensors.

# Simulazione di Esame

Operational Procedures - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**49. A substance which may never be used in the vicinity or on parts of an oxygen installation is:**

---

- a) Grease
- b) Nitrogen
- c) Water
- d) Halon

**50. In order to indicate radio failure the aircraft SSR transponder should be selected to code:**

---

- a) 7000
- b) 7700
- c) 7600
- d) + or - 50° of the runway centre-line

**51. Which statement is correct regarding a shockwave on a lift generating wing?**

---

- a) It reaches its highest strength when flying at the critical Mach number
- b) It moves slightly aft when an aileron is deflected downward
- c) It is located at the greatest wing thickness when the aeroplane reaches the speed of sound
- d) It moves forward when the Mach number is increased

**52. The purposes of the oil and the nitrogen in an oleo-pneumatic strut are:**

---

- a) The Oil Supplies The Spring Function And The Nitrogen Supplies The Damping Function.
- b) The oil supplies the damping function and the nitrogen supplies the spring function
- c) The oil supplies the damping and lubrication function, the nitrogen supplies the heat-dissipation function.
- d) The Oil Supplies The Sealing And Lubrication Function, The Nitrogen Supplies The Damping Function.

**53. The maximum quantity of fuel that can be loaded into an aircraft's tanks is given as 3800 US Gallons. If the fuel density (specific gravity) is given as 0.79 the mass of fuel which may be loaded is:**

---

- a) 14383 kg
- b) 11364 kg
- c) 13647 kg
- d) 18206 kg

# Simulazione di Esame

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**54. Which of the following calls is a "GENERAL CALL"?**

---

- a) YX-DEF Stephenville CONTROL.
- b) ALL STATIONS Stephenville CONTROL.
- c) YX-EFG, YX-FGH over.
- d) YX-ABC, YX-BCD, YX-CDE Stephenville CONTROL.

**55. The distance between two waypoints is 200 NM, To calculate compass heading, the pilot used 2°E magnetic variation instead of 2°W. Assuming that the forecast W/V applied, what will the off track distance be at the second waypoint?**

---

- a) 7 NM
- b) 14 NM
- c) 21 NM
- d) 0 NM

**56. Bernoulli's law states: (note: rho is the mean sea level density under ISA conditions)**

---

- a) Pstat is static pressure
- b) Pdyn is dynamic pressure
- c) Ptot is total pressure)
- d)  $P_{stat} + \frac{1}{2} \rho V^2 = \text{constant}$

**57. During a special VFR flight, the minimum visibility required by EASA OPS is:**

---

- a) 2.500 meters
- b) 3.000 meters
- c) 5.000 meters
- d) 1.500 meters or more

**58. Which of the following is a cause of stratus forming over flat land?**

---

- a) Unstable air.
- b) Convection during the day.
- c) Radiation during the night from the Earth surface in moderate wind.
- d) The release of latent heat.

# Simulazione di Esame

Operational Procedures - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**59. Which of these statements about structural design are correct and incorrect? 1) In structural design, FAIL SAFE implies the structure will never fail. 2) In structural design, SAFE LIFE implies the structure will never fail during a declared time period or number of cycles.**

---

- a) 1) Is Correct, 2) Is Correct.
- b) 1) is correct, 2) is incorrect.
- c) 1) is incorrect, 2) is correct.
- d) 1) is incorrect, 2) is incorrect.

**60. Standard time is:**

---

- a) The time enforced by the legal authority to be used in a country or an area.
- b) The time used at a particular meridian.
- c) The time most frequently used for air navigation.
- d) The time which is accepted and used as a standard for the whole world.

**61. A plain flap will increase  $CL_{max}$  by**

---

- a) Increasing angle of attack.
- b) Boundary layer control.
- c) Increasing the camber of the aerofoil.
- d) Centre of lift movement.

**62. Generally what line lies closer to the poles?**

---

- a) Rhumb line.
- b) Orthodromic line.
- c) Equator.
- d) The rhumb line or great circle depending on the chart used.

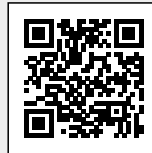
**63. An aircraft plans to depart London at 1000 UTC and arrive at Munich (EDDM) at 1215 UTC. In the ATC flight plan Item 16 (destination/EET) should be entered with:**

---

- a) EDDM0215
- b) EDDM2H15
- c) In the ATC flight plan Item 16 (destination/EET) should be entered with: EDDM0215 EDDM2H15 EDDM AT 0215
- d) EDDM1415

# Simulazione di Esame

Operational Procedures - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**64. Because of the input/output relationship of an AND gate, it is often referred to as the:**

---

- a) All or nothing' gate.
- b) Inhibited' or 'negated' gate.
- c) State indicator' gate.
- d) Any Or All' Gate.

**65. The diameter of a typical tornado is**

---

- a) About 2 to 6 km
- b) Only a few metres
- c) In the order of 10 km
- d) 100 to 150 metres

**66. The signal transmitted by a radio altimeter is:**

---

- a) An amplitude modulated carrier wave.
- b) A combination of frequency modulation and pulse modulation.
- c) A pulse modulated carrier wave.
- d) A frequency modulated carrier wave.

**67. During a deceleration phase at constant attitude, the control system of the artificial horizon results in the horizon bar indicating a**

---

- a) Nose down attitude.
- b) Nose up followed by a nose down attitude.
- c) Constant attitude.
- d) Nose up attitude.

**68. When flying in warm air (warmer than standard atmosphere), indicated altitude is:**

---

- a) Lower than the true altitude.
- b) Equal to the standard altitude.
- c) The same as the true altitude.
- d) Higher than the true altitude.

# Simulazione di Esame

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**69. The fuel temperature, at which, under standard conditions, the vapour ignites in contact with a flame and extinguishes immediately, is the:**

---

- a) Combustion Point
- b) Flash point
- c) Self ignition point
- d) Fire Point

**70. Glaucoma is:**

---

- a) High intra-ocular pressure
- b) Disturbed night vision
- c) Disturbed adaptation
- d) Disturbed colour vision

# Simulazione di Esame

Operational Procedures - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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## Schema Risposte

Confronta le risposte fornite con il seguente schema e segna il tuo punteggio!

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