

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

NOME ALLIEVO:

DATA & ORA:

**01. The most common sensors interfacing a FMS to compute the aircraft position along the flight plan are: 1- MLS2- GPS3- VOR4- IRSThe combination which regroups all of the correct statements is:**

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

**02. Given: True HDG = 145°, TAS = 240 kt, Track (T) = 150°, GS = 210 kt. Calculate the W/V?**

- a) 360/35kt
- b) 115/35kt
- c) 295/35kt
- d) 180/35kt

**03. The distress message shall contain as many as possible of the following elements/details:**

- a) Aircraft call sign, route of flight, destination airport
- b) Aircraft call sign, aerodrome of departure, position and level
- c) Aircraft call sign, nature of distress, pilot's intention, present position, level and heading
- d) Aircraft call sign, present position, assistance required

**04. A runway is contaminated by a 0.5 cm layer of wet snow. The take-off is nevertheless authorized by a light-twin's flight manual. The take-off distance in relation to a dry runway will be:**

- a) Unchanged
- b) Decreased
- c) Increased
- d) Very significantly decreased

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

## 05. Which statement about acute or chronic fatigue is INCORRECT?

---

- a) Chronic fatigue may be caused by inadequate recuperation from periods of acute fatigue.
- b) Chronic fatigue may lead to a person being totally apathetic and indifferent to what goes on around them.
- c) Acute fatigue generally has psychological roots.
- d) Acute fatigue is felt after a period of significant exertion or emotional excitement.

## 06. Which is the maximum distance at which you might expect solid VHF contact over flat terrain at flight level 100:

---

- a) About 120 NM
- b) About 12 NM
- c) About 30 NM
- d) About 300 NM

## 07. When may the name of the location or the call sign suffix in the call sign of an aeronautical station be omitted ?

---

- a) Only after the aeronautical station has used the abbreviated call sign
- b) Never
- c) In dense traffic during rush hours
- d) When satisfactory communication has been established and provided it will not be confusing to do so

## 08. The spin axis of the turn indicator gyro is aligned along the:

---

- a) Lateral axis of the aircraft.
- b) Longitudinal axis of flight.
- c) Vertical axis of the aircraft.
- d) Longitudinal axis of the aircraft.

## 09. Which statement about stick force per g is correct?

---

- a) The stick force per g increases, when centre of gravity is moved aft.
- b) The stick force per g must have both an upper and lower limit in order to ensure acceptable control characteristics.
- c) If the slope of the Fe-n line becomes negative, generally speaking this is not a problem for control of an aeroplane.
- d) The stick force per g can only be corrected by means of electronic devices (stability augmentation) in case of an unacceptable value.

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

**10. In which situation would the wing lift of an aeroplane in straight and level flight have the highest value?**

---

- a) Forward centre of gravity and take-off thrust
- b) Aft centre of gravity and idle thrust
- c) Aft centre of gravity and take-off thrust
- d) Forward centre of gravity and idle thrust

**11. Following an act of unlawful interference on board an aircraft, the commander should submit a report to:**

---

- a) Both the local authority and the Authority of the State of the operator
- b) The Authority of the State within which the aircraft is operating at the time of the unlawful interference
- c) The Authority of the State of the operator only
- d) The local authority only

**12. What type of low pressure area is associated with a surface front?**

---

- a) A polar front low
- b) A heat low
- c) A low on the lee side of a mountain
- d) A cold air pool

**13. The maximum aft position of the centre of gravity is, amongst others, limited by the:**

---

- a) Maximum longitudinal stability of the aeroplane.
- b) Required minimum value of the stick force per g.
- c) Inability to achieve maximum rotation rate during take-off.
- d) Maximum elevator deflection.

**14. In a fuel system, the oil to fuel heat exchanger allows:**

---

- a) Jet engine oil cooling through thermal exchange with fuel flowing from tanks.
- b) Temporary (on as needed basis) fuel heating by the engine oil to prevent icing in fuel filter.
- c) Fuel cooling so as to prevent vapour creation likely to unprime the nozzles.
- d) Fuel Heating As Required Whenever Fuel Filter Clogging Is Detected.

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

**15. An aircraft making a radar approach should be directed to execute a missed approach if no clearance to land has been received from the non-radar controller by the time the aircraft reaches a distance of:**

---

- a) 5 NM from the touchdown
- b) 4 NM from the touchdown
- c) 1.5 NM from the touchdown
- d) 2 NM from the touchdown

**16. How are the air masses distributed in a cold occlusion ?**

---

- a) The coldest air in front of and the warm air behind the occlusion
- b) The less cold air is above ground level.
- c) The coldest air in front of and the less cold air is behind the occlusion
- d) The warm air mass is above ground level.

**17. When asked by ATC "ARE YOU ABLE TO MAINTAIN FL80?" the correct reply contains the word:**

---

- a) AFFIRM or NEGATIVE
- b) WILCO
- c) CLEARED
- d) ROGER

**18. The 'Black hole' phenomenon occurs during approaches at night and over water, jungle or desert. When the pilot is lacking visual cues other than those of the aerodrome there is an illusion of**

---

- a) Being too close, landing long
- b) Climbing
- c) Being too high and too far away, dropping low and landing short
- d) Being too low, flying a steeper approach than normal

**19. According to ICAO 8168, what is regarded as the maximum safe deviation below the glide path during ILS approach?**

---

- a) Three quarter scale deflection.
- b) One quarter scale deflection.
- c) Full scale deflection.
- d) Half scale deflection.

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

## 20. A signalman will ask the pilot to apply parking brakes by the following signals:

---

- a) Crossing arms extended above his head
- b) Arms down , palms facing inwards, moving arms from extended position inwards.
- c) Horizontally moving his hands, fingers extended, palms toward ground
- d) Raise arm and hand, with fingers extended, horizontally in front of body , then clench fist

## 21. What shall the pilot's readback be for 'climb to 2500 feet':

---

- a) Climbing to two thousand five hundred feet
- b) Climbing to two thousand five hundred
- c) Climbing to two point five
- d) Up to two thousand five hundred

## 22. When establishing an instrument approach procedure, 5 aircraft categories according to their speed at the threshold (Vat) are established. This speed is equal to the stalling speed in the landing configuration at the maximum certified landing mass multiplied by a factor of:

---

- a) 1.45
- b) 1.5
- c) 1.3
- d) 1.15

## 23. The objectives of ICAO was ratified by the:

---

- a) Chicago convention 1944
- b) Geneva convention 1936
- c) Geneva convention 1948
- d) Warsaw convention 1929

## 24. Member states should introduce specific security measures for the air transport of the following groups of potentially disruptive passengers defined below:

---

- a) Deportees, inadmissible persons and persons in lawful custody
- b) None of the answers is correct
- c) Deportees and inadmissible persons only
- d) Deportees and persons in lawful custody only

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

## 25. Which of the following will give the most accurate calculation of aircraft ground speed?

---

- a) A DME station sited on the flight route
- b) A DME station sited across the flight route
- c) A VOR station sited on the flight route
- d) Yellow to amber to blue

## 26. Which phraseology is to be used to ask the control tower for permission to taxi on a runway in the direction opposite to that in use ?

---

- a) 'Request backtrack on runway'.
- b) 'Backtrack clearance'.
- c) 'To enter back runway'.
- d) 'Clearance to backtrack'.

## 27. In a gas turbine engine, compressor blades, which are not rigidly fixed in position when the engine is stationary, take up a rigid position when the engine is running due to:

---

- a) Oil Pressure.
- b) The resultant of aerodynamic and centrifugal forces.
- c) Blade creep.
- d) Thermal Expansion.

## 28. What is decompression sickness?

---

- a) A disorder which is solely encountered below 18,000 ft
- b) A frequent disorder in commercial aviation due to the pressurisation curve of modern aircraft
- c) The formation of air bubbles in bodily tissues, with no consequences for people's capabilities
- d) A condition resulting from the formation of nitrogen bubbles in bodily tissues and fluids after a cabin pressure loss at high altitude

## 29. An aeroplane's weighing schedule indicates that the empty mass is 57320 kg. The nominal Dry Operating Mass is 60120 kg and the Maximum Zero Fuel Mass is given as 72100 kg. Which of the following is a correct statement in relation to this aeroplane?

---

- a) Operational items have a mass of 2800 kg and the maximum traffic load for this aeroplane is 11980 kg.
- b) Operational items have a mass of 2800 kg and the maximum useful load is 14780 kg.
- c) Operational items have a mass of 2800 kg and the maximum useful load is 11980 kg.
- d) Operational items have a mass of 2800 kg and the maximum traffic load for this aeroplane is 14780 kg.

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

**30. In a steep turn, the northerly turning error on a magnetic compass on the northern hemisphere is:**

---

- a) None on a 270° heading in a left turn.
- b) None on a 090° heading in a right turn.
- c) Equal to 180° on a 090° heading in a right turn.
- d) Equal to 180° on a 270° heading in a right turn.

**31. If you are requested to 'Report flight conditions', what does that mean:**

---

- a) Indicate whether you are flying in IMC or in VMC
- b) Indicate whether you are flying IFR or VFR
- c) Indicate if visibility is sufficient for landing
- d) Indicate weather conditions as wind, visibility, temperature

**32. What does the word 'approved' mean?**

---

- a) That is correct
- b) Permission for proposed action granted
- c) I repeat for clarity or emphasis
- d) Authorized to proceed under the conditions specified

**33. What is the SI unit of measurement for power?**

---

- a) Pa/m<sup>2</sup>
- b) Kg/m/s<sup>2</sup>
- c) N/m
- d) Nm/s

**34. Where, as a general rule, is the core of the polar front jet stream to be found?**

---

- a) Just below the cold-air tropopause.
- b) Just above the warm-air tropopause.
- c) In the tropical air mass.
- d) In the polar air mass.

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

**35. . The mass of an item multiplied by it's distance from the datum is it's**

---

- a) Moment
- b) Force
- c) Moment arm
- d) Centre of gravity

**36. Which of the following is correct regarding the range of an NDB?**

---

- a) Aircraft height is not limiting for the reception of signals from the N
- b) The transmitter power of the NDB station has no effect on the range.
- c) The range of an NDB will most likely increase at day time compared to night time.
- d) The range is limited to the line of sight.

**37. In An Air Data Computer (ADC), aeroplane altitude is calculated from:**

---

- a) Measurement of outside air temperature (OAT)
- b) The difference between absolute and dynamic pressure at the fuselage
- c) Measurement of elapsed time for a radio signal transmitted to the ground surface and back
- d) Measurement of absolute barometric pressure from a static source on the fuselage

**38. Isolated thunderstorms of a local nature are generally caused by**

---

- a) Frontal lifting (warm front).
- b) Thermal triggering.
- c) Frontal occlusion.
- d) Frontal lifting (cold front).

**39. When accelerating on an easterly heading in the Northern hemisphere, the compass card of a direct reading magnetic compass will turn:**

---

- a) Clockwise giving an apparent turn toward the north
- b) Anti-clockwise giving an apparent turn toward the south
- c) Anti-clockwise giving an apparent turn toward the north
- d) Clockwise giving an apparent turn toward the south



# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

## 40. When compared to still air conditions, a constant headwind component:

---

- a) Increases the best rate of climb
- b) Decreases the angle of climb
- c) Increases the angle of flight path during climb
- d) Increases the maximum endurance

## 41. For the purpose of wake turbulence separation, what is the ICAO minimum radar separation distance if a heavy aeroplane is following directly behind another heavy aeroplane on the approach to the same runway ?

---

- a) 9.3 km (5 NM)
- b) 11.1 km (6 NM)
- c) 7.4 km (4 NM)
- d) 3.7 km (2 NM)

## 42. Minimum planned take-off fuel is 160 kg (30% total reserve fuel is included). Assume the groundspeed on this trip is constant. When the aircraft has done half the distance the remaining fuel is 70 kg. Is diversion to a nearby alternate necessary?

---

- a) Diversion to a nearby alternate is not necessary, because it is allowed to calculate without reserve fuel.
- b) Diversion to a nearby alternate is not necessary, because the reserve fuel has not been used completely.
- c) Diversion to a nearby alternate is necessary, unless the captain decides to continue on his own responsibility.
- d) Diversion to a nearby alternate is necessary, because the remaining fuel is not sufficient.

## 43. Which of the following corresponds to zero fuel mass?

---

- a) Operating mass plus luggage of passengers and cargo.
- b) Operating mass plus passengers and cargo.
- c) The take-off mass of an aeroplane minus all usable fuel.
- d) Take-off mass minus fuel to destination and alternate.

## 44. In a microburst combined with a violent storm the winds at:

---

- a) Low altitude diverge from the centre of the phenomenon and the atmospheric pressure decreases by a few hectopascals.
- b) High altitude converge on the centre of the phenomenon and the atmospheric pressure increases by a few hectopascals.
- c) Low altitude converge on the centre of the phenomenon and the atmospheric pressure decreases by a few hectopascals.
- d) Low altitude diverge from the centre of the phenomenon and the atmospheric pressure increases by a few hectopascals.

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

**45. What approximate rate of descent is required in order to maintain a 3° glidepath at a groundspeed of 90 kt?**

---

- a) 450 FT/MIN
- b) 700 FT/MIN
- c) 600 FT/MIN
- d) Stop the loop rotation

**46. The prescribed re-examination of a licence holder operating in an area distant from designated medical examination facilities may be deferred at the discretion of the licence authority, provided that such deferment shall only be made as an exception and shall not exceed:**

---

- a) Two consecutive periods each of three month in the case a flight crew member of an aircraft engaged in non-commercial operations.
- b) A single period of three month in the case of a flight crew member of an aircraft engaged in commercial operations.
- c) A single period of six month in the case of a flight crew member of an aircraft engaged in non- commercial operations.
- d) Two consecutive periods each of six month in the case of a flight crew member of an aircraft engaged in non-commercial operations.

**47. What is the the worst hazard, if any, that could be associated with the type of feature at 38°N 015°E ?**

---

- a) Reduced visibility
- b) Severe attenuation in the HF R/T band
- c) There is no hazard
- d) Engine flame out and windscreen damage[see Annex]

**48. Refer to the Jeppesen General Student Pilot Route Manual - VFR Chart ED-4Flying VFR from VILLINGEN (48°03.5'N, 008°27.0'E) to FREUDENSTADT (48°28.0'N,008°24.0'E) determine the magnetic course.**

---

- a) 176°
- b) 355°
- c) 185°
- d) 004°

**49. The landing reference speed VREF has, in accordance with CS 25, the following margins above reference stall speed in landing configuration:**

---

- a) 23%
- b) 10%
- c) 20%
- d) 15%

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

**50. Please check the following statements:1. A stressor causes activation2. Activation stimulates a person to cope with it**

---

- a) 1 is correct, 2 is not correct
- b) 1 and 2 are both correct
- c) 1 and 2 are both not correct
- d) 1 is not correct, 2 is correct

**51. Given:Distance from departure to destination 1950 NM GS Out 400 ktGS Home 300 kt What is the time of the PET from the departure point?**

---

- a) 223 min
- b) 167 min
- c) 125 min
- d) 29 min

**52. Altostratus clouds are classified as**

---

- a) High level clouds
- b) Low level clouds
- c) Convective clouds
- d) Medium level clouds

**53. The Take-off Mass of an aeroplane is 66700 kg which includes a traffic load of 14200 kg and a usable fuel load of 10500 kg. If the standard mass for the crew is 545 kg the Dry Operating Mass is:**

---

- a) 56200 kg
- b) 42000 kg
- c) 42545 kg
- d) 41455 kg

**54. The lift formula is:**

---

- a)  $L = W$
- b)  $L = C_L \frac{1}{2} \rho V^2 S$
- c)  $L = n W$
- d)  $L = C_L 2 \rho V^2 S$

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

**55. What are the main factors which bring about reduced or low vigilance (hypovigilance) ?** 1. The monotony of the task 2. Tiredness and the need for sleep 3. A lack of stimulation 4. Excessive stress

---

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

**56. How should a pilot terminate the read-back of an ATC clearance ?**

---

- a) With his own aircraft call sign
- b) With the word 'roger'
- c) With the ATC ground station call sign
- d) With the word 'wilco'

**57. While on IFR flight, a pilot has an emergency which causes a deviation from an ATC clearance. What action must be taken?**

---

- a) Submit a detailed report to ATC within 24 hours
- b) Request an amended clearance or cancel the IFR flight plan
- c) Squawk 7700
- d) The appropriate ATC unit shall be notified of the action taken as soon as circumstances permit

**58. SSR special codes ATC has assigned you the transponder code 5320. In case of losing two way radio communication, you have to squawk:**

---

- a) Mode A Code 7700
- b) Mode A Code 5320
- c) Mode A Code 7500
- d) Mode A Code 7600

**59. An airline is planning a flight that will require a Technical landing in a neighbouring state. Which freedom of the Air will be exercised?**

---

- a) 3rd freedom
- b) 1st freedom
- c) 4th freedom
- d) 2nd freedom

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

**60. One of the main characteristics of windshear is that it:**

---

- a) Occurs only at a low altitude ( 2000 ft) and never in the vertical plane
- b) Occurs only at a low altitude ( 2000 ft) and never in the horizontal plane
- c) Can occur at any altitude in both the vertical and horizontal planes
- d) Can occur at any altitude and only in the horizontal plane

**61. What is the colour sequence when passing over an Outer, Middle and Inner Marker beacon?**

---

- a) Amber - white - green
- b) Blue - amber - white
- c) Blue - green - white
- d) White - amber - blue

**62. Which constant pressure altitude chart is standard for FL 300?**

---

- a) 200 hPa
- b) 700 hPa
- c) 300 hPa
- d) 500 hPa

**63. Fuel pumps submerged in the fuel tanks of a multi-engine aircraft are:**

---

- a) Low Pressure Variable Swash Plate Pumps.
- b) Centrifugal high pressure pumps.
- c) Centrifugal low pressure type pumps.
- d) High Pressure Variable Swash Plate Pumps.

**64. The angle of attack for a propeller blade is the angle between the blade chord line and the:**

---

- a) Direction of propeller axis.
- b) Local air speed vector.
- c) Principal direction of the propeller blade.
- d) Aeroplane heading.

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

**65. When climbing at a constant CAS in a standard atmosphere:**

---

- a) TAS remains constant.
- b) TAS decreases.
- c) TAS first decreases, then remains constant above the tropopause.
- d) TAS increases.

**66. An electrically activated and operated fuel valve is called a/an:**

---

- a) Pcu Valve.
- b) Electronic valve.
- c) Solenoid valve.
- d) Check Valve.

**67. Which of the following mechanisms regulate body temperature when exposed to extreme high environmental temperatures?-1: Shivering-2: Vaso-constriction of peripheral blood vessels-3: Sweating-4: Vaso-dilation of peripheral blood vessels**

---

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

**68. What is the approximate speed of a 90 km/h wind, expressed in knots?**

---

- a) 50 kt
- b) 70 kt
- c) 60 kt
- d) 55 kt

**69. What is the maximum distance at which you may expect strong VHF reception over flat terrain at FL 140 ?**

---

- a) About 240 NM
- b) About 300 NM
- c) About 40 NM
- d) About 140 NM

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

## 70. Without wind, the tip vortices created by an airplane at take-off:

---

- a) Stagnate on the runway.
- b) Separate on each side of the runway.
- c) Separate to the left side.
- d) Separate to the right side.

# Simulazione di Esame

Air Law - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



QuizVds.it

## Schema Risposte

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

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