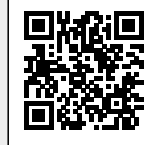


# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

**01. The operator shall include in the operations manual a Minimum Equipment List which shall be approved by the Authority of:**

- a) The country of the operator.
- b) It is not mandatory that such a book be approved by aviation authorities.
- c) The country where the aircraft was manufactured.
- d) The country where the aircraft is operated.

**02. What action should be taken by the aircraft station first receiving a distress message?**

- a) Ask the station to change to frequency 121.5 MHZ.
- b) Immediately acknowledge the distress message.
- c) Request position of the station in distress.
- d) Request the nature of emergency in progress, and request further intentions.

**03. Which of the following combinations basically has an effect on the angle of descent in a glide?(Ignore compressibility effects.)**

- a) Configuration and angle of attack
- b) Configuration and mass
- c) Altitude and configuration
- d) Mass and altitude

**04. The "Equation of time":**

- a) Is used to calculate mean time when standard time is known.
- b) States the difference between celestial time and apparent time.
- c) Is used when calculating the difference between UTC and LMT.
- d) States the difference in time of transit of mean Sun and the apparent Sun any particular day.

# Simulazione di Esame

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**05. The operator of an aircraft equipped with 50 seats uses standard masses for passengers and baggage. During the preparation of a scheduled flight a group of passengers present themselves at the check-in desk, it is apparent that even the lightest of these exceeds the value of the declared standard mass.**

- a) The operator may use the standard masses for the load and balance calculation without correction
- b) The operator may use the standard masses for the balance but must correct these for the load calculation
- c) The operator should use the individual masses of the passengers or alter the standard mass
- d) The operator is obliged to use the actual masses of each passenger

**06. The speed range between high- and low speed buffet:**

- a) Increases during climb.
- b) Decreases during a descent at a constant Mach number.
- c) Increases during a descent at a constant IAS.
- d) Is always positive at Mach numbers below MMO.

**07. During deceleration following a landing in a southerly direction, a magnetic compass made for the northern hemisphere indicates:**

- a) An apparent turn to the east.
- b) An apparent turn to the west.
- c) No apparent turn.
- d) No apparent turn only on northern latitudes.

**08. What does the abbreviation 'RNAV' mean:**

- a) Radar aided navigation
- b) Route navigation
- c) Area navigation
- d) Radio navigation

**09. 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)  $X = D \times O / (O + H)$

# Simulazione di Esame

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**10. On most transport jet aircraft, the low pressure pumps of the fuel system are supplied with electric power of the following type:**

---

- a) 115 v ac
- b) 115 V DC
- c) 28 V DC
- d) 28 V Ac

**11. Which of the following is an advantage of Ground/DF (VDF) let-down?**

---

- a) It only requires a VHF radio to be fitted to the aircraft
- b) It does not require any special equipment, apart from a VHF radio, to be installed in the aircraft or on the ground
- c) It does not require any special equipment to be fitted to the aircraft
- d) It is pilot interpreted and does not require the assistance of ATC

**12. With an true airspeed of 194 KT and a vertical speed of 1000 fpm, the climb gradient is about:**

---

- a) 5°
- b) 3%
- c) 8%
- d) 3°

**13. What phrase shall be used when asking for the readability of a transmission?**

---

- a) Read back
- b) Report readability
- c) How do you read?
- d) Read you loud and clear

**14. Which gas most readily combines with haemoglobin?**

---

- a) Nitrogen
- b) Carbon monoxide
- c) Carbon dioxide
- d) Oxygen

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**15. Separation methods and minima - vertical separation**The Vertical Separation Minimum (VSM) for flights in accordance with IFR within controlled airspace below FL 290 is:

---

- a) 2000 feet (600 m).
- b) 500 feet (150 m).
- c) 1000 feet (300 m).
- d) 2500 feet (750 m).

**16. If, in the event of a failure, the approach, flare and landing can be completed by the remaining part of the automatic system, such an automatic landing system is considered as:**

---

- a) Fail-operational.
- b) Fail-hard.
- c) Fail-soft.
- d) Fail-passive.

**17. Considering the North Atlantic area north of 60°N during winter, the mean height of the tropopause is approximately:**

---

- a) 56000'
- b) 37000'
- c) 29000'
- d) 20000'

**18. Which of the following statements is true ?**

---

- a) QNH can be equal to QFE
- b) QNH is always equal to QFE
- c) QNH is always higher than QFE
- d) QNH is always lower than QFE

**19. Consider the following statements on the shape of the Earth:**

---

- a) The longest diameter is between the poles.
- b) The diameters of the Earth is the same at all latitudes.
- c) The diameter at the equator is about 60 NM longer than the diameter between the poles.
- d) It is slightly flattened at the poles.

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**20. An aircraft transmitting a distress message is required to give its position as:**

---

- a) The most accurate possible using GPS if fitted.
- b) Present or last known position, altitude or level and heading.
- c) Position relative to a VRP.
- d) Latitude and longitude.

**21. The effect of a positive wing sweep on static directional stability is as follows:**

---

- a) No effect
- b) Destabilizing dihedral effect
- c) Stabilizing effect
- d) Negative dihedral effect

**22. All pilots encountering Clear Air Turbulence are requested to report it. You experience CAT which causes passengers and crew to feel definite strain against their seat belt or shoulders straps. Unsecured objects are dislodged. Food service and walking are difficult. This intensity of CAT should be reported as**

---

- a) Light
- b) Moderate
- c) Extreme
- d) Severe

**23. On a Mercator chart, the scale:**

---

- a) Is constant throughout the chart.
- b) Varies as the sine of the latitude.
- c) Varies as  $1/2$  cosine of the co-latitude.
- d) Varies as  $1/\cosine$  of latitude ( $1/\cosine = \secant$ ).

**24. Given that the characteristics of a three engine turbojet aeroplane are as follows: Thrust = 50000 Newton / Engine  
 $g = 10 \text{ m/s}^2$   
Drag = 72569 N  
Minimum steady gradient of climb (2nd segment) = 2.7%  
 $SIN(\text{Angle of climb}) = (\text{Thrust} - \text{Drag}) / \text{Weight}$   
The maximum take-off mass under 2nd segment conditions with 1 engine out is:**

---

- a) 101596 kg
- b) 209064 kg
- c) 74064 kg
- d) 286781 kg

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## 25. When descending at a constant Mach number:

---

- a) The difference between surrounding conditions and ISA must be known to deduce the CAS variation.
- b) CAS decreases.
- c) CAS increases.
- d) CAS remains constant.

## 26. Large hail stones

---

- a) Only occur in thunderstorms of mid-latitudes
- b) Are typically associated with severe thunderstorms
- c) Only occur in frontal thunderstorms
- d) Are entirely composed of clear ice

## 27. Cold air pools

---

- a) Can easily be recognized on synoptic surface charts
- b) Only occur at mid-latitudes
- c) Are most evident in the temperature and wind fields of the upper levels
- d) Only occur in winter

## 28. A "landing compass" is:

---

- a) The compass used as reference during landing.
- b) Painted on the ground at airfields to indicate the direction of the cardinal magnetic headings to observers on the ground or in the air.
- c) A compass on which the runway direction for landing may be set as a "bug".
- d) Used to establish aircraft magnetic heading during a compass swing.

## 29. Parallax error is:

---

- a) Due to temperature effect
- b) A reading error
- c) Due to the effect of aircraft accelerations
- d) Due to pressure effect

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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## 30. Wind is caused by

---

- a) The rotation of the earth
- b) Friction between the air and the ground
- c) Horizontal pressure differences
- d) The movements of fronts

## 31. Concerning the TCAS (Traffic Collision Avoidance System):

---

- a) In one of the system modes, the warning: 'PULL UP' is generated
- b) In one of the system modes, the warning: 'TOO LOW TERRAIN' is generated
- c) Resolution Advisory (RA) must not be followed without obtaining clearance from ATC
- d) No protection is available against aircraft not equipped with a serviceable SSR transponder

## 32. An artificial feel system:

---

- a) Functions in parallel with an irreversible hydraulic actuator.
- b) Functions In Series With An Irreversible Hydraulic Actuator.
- c) Is Mounted In Parallel With A Spring Tab.
- d) Is Necessary In A Reversible Flight Control Actuator Unit.

## 33. In case the transponder fails before the departure for an IFR flight, the pilot shall:

---

- a) Obtain prior permission by ATC to conduct the flight
- b) Inform ATC after departure
- c) Insert under item 18 of the flight plan 'transponder unserviceable'
- d) Inform FIS for relay to AIS

## 34. The time is 9:20

---

- a) M. What is the correct way of transmitting this time if there is no possibility of confusion about the hour? Twenty.
- b) Two zero this hour.
- c) Two zero.
- d) Nine twenty M.

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**35. Given: true track 070° variation 30°W deviation +1° drift 10°R Calculate the compass heading?**

---

- a) 091°
- b) 100°
- c) 089°
- d) 101°

**36. According to PART-FCL, an applicant for ATPL (A) shall have completed as a pilot of aeroplane at least 1.500 hours of flight time, including**

---

- a) 500 hours in multi-pilot operations on aeroplanes type certificated in accordance with EASA- CS/FAR 25 or EASA-CS/FAR 23, as pilot-in-command
- b) 500 hours in multi-pilot operations on aeroplanes type certificated in accordance with EASA- CS/FAR 25 or EASA-CS/FAR 23, of which up to 150 hours may be as flight engineer.
- c) 500 hours in multi-pilot operations on aeroplanes type certificated in accordance with EASA- CS/FAR 25 or EASA-CS/FAR 23.
- d) 500 hours in multi-pilot operations on aeroplanes type certificated in accordance with EASA- CS/FAR 25 or EASA/FAR 23, including 200 hours of night flight as pilot-in-command or as co-pilot.

**37. An operator can operate an aeroplane certificated to JAR25, across an area in which search and rescue would be especially difficult, without additional survival equipment if it flies away from an area suitable for making an emergency landing at a distance corresponding to no more than:**

---

- a) 90 minutes at cruising speed.
- b) 120 minutes at cruising speed.
- c) 30 minutes at cruising speed.
- d) 60 minutes at cruising speed.

**38. Immediately following the MAYDAY prefix, an aircraft in distress should transmit:**

---

- a) The aircraft call sign twice.
- b) Its last known position.
- c) The call sign of the station addressed, when it is known and the circumstances permit.
- d) The nature of the emergency.



# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**39. Which of the following lists are all errors that affect the accuracy and reliability of the Satellite-Assisted Navigation system (GNSS/GPS)?**

---

- a) Satellite mutual interference
- b) Satellite ephemeris
- c) Atmospheric propagation
- d) Global Positioning System (GPS)

**40. The Decision Height (DH) warning light comes on when an aircraft:**

---

- a) Passes over the outer marker.
- b) Descends below a pre-set barometric altitude.
- c) Descends below a pre-set radio altitude.
- d) Passes over the ILS inner marker.

**41. The thrust reversers of jet engines may use clamshell doors in order to:**

---

- a) Absorb Any Surge In Engine Thrust.
- b) Change the direction of the exhaust gas stream.
- c) Reduce the pressure of the exhaust gas stream by diffusing it to atmosphere.
- d) Stop The Flow Of The Exhaust Gas Stream.

**42. A load placed forward of the datum**

---

- a) Has a negative arm and therefore generates a negative mass and moment
- b) Has a positive arm and therefore generates a positive mass and moment
- c) Has a negative arm and therefore generates a negative moment
- d) Has a positive arm and therefore generates a positive moment

**43. Scanning at night should be performed by:**

---

- a) Slight eye movements to the side of the object
- b) Avoiding food containing Vitamin A
- c) Concentrated fixation on an object (image must fall on the fovea)
- d) Scanning with one eye open

# Simulazione di Esame

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**44. Which of these statements about structural design principles are correct or incorrect? 1) The DAMAGE TOLERANCE principle takes cracking of the structure into account. 2) The SAFE LIFE principle is based on the replacement of parts after a given number of cycles or flight hours.**

---

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

**45. An aeroplane which has a maximum certificated take-off mass over 5700 kg, shall be equipped with a cockpit voice recorder capable of retaining information recorded during at least the last:**

---

- a) 30 minutes or 2 hours of its operation, depending upon the date of the first issue of its individual Certificate of Airworthiness.
- b) 25 hours of its operation.
- c) 20 hours of its operation.
- d) 30 minutes or 1 hour of its operation, depending upon the date of the first issue of its individual Certificate of Airworthiness.

**46. The QFF at an airfield in California located 69 metres below sea level is 1030 hPa. The air temperature is 10°C lower than a standard atmosphere. What is the QNH?**

---

- a) Less than 1030 hPa
- b) More than 1030 hPa
- c) It is not possible to give a definitive answer
- d) 1030 hPa

**47. With a heart rate of 72 beats per minute and a stroke volume of 70 ml the cardiac output is about:**

---

- a) 6 litres/min
- b) 5 litres/min
- c) 8 litres/min
- d) 7 litres/min

**48. What can a pilot do to avoid 'Flicker vertigo' when flying in the clouds?**

---

- a) Dim the cockpit lights to avoid reflections
- b) Engage the autopilot until breaking the clouds
- c) Switch strobe-lights off
- d) Fly straight and level and avoid head movements

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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## 49. The operating mass of an aeroplane is:

- a) The empty mass plus crew, crew baggage and catering.
- b) The empty mass plus the take-off fuel mass.
- c) The empty mass plus the trip fuel mass.
- d) The dry operating mass plus the take-off fuel mass.

## 50. Approach procedures - CirclingThe visual contact with the runway is lost on the down-wind leg, while circling to land following an instrument approach. You have to initiate a go-around:

- a) Make a turn of 90 degrees towards the runway and try to regain visual contact.
- b) Make an initial climbing turn towards the runway and initiate the missed approach.
- c) Turn towards the runway, maintain altitude and request ATC instructions.
- d) If you have other visual cues of the aerodrome environment, continue with visual ground contact.

## 51. What does the term 'way point' mean:

- a) A defined position on an aerodrome used for the calibration of the inertial navigation system
- b) A signal indicating the direction of the runway-in-use
- c) A specified geographical position used to define an area navigation route or the flight path of an aircraft employing area navigation
- d) A general term meaning the taxiway- and the runway-system of an international airport

## 52. Position "Elephant Point" is situated at (58°00'N, 135°30'W). Standard time for this location is listed in the Air Almanac as UTC -8. If sunset occurs at 00:57 UTC on 21st January, what is the time of sunset in LMT?

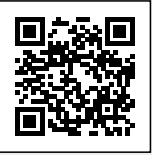
- a) 15:55 on January 20th.
- b) 09:59 on January 21st.
- c) 16:57 on January 20th.
- d) 08:57 on January 21st.

## 53. A cumulonimbus cloud in the vicinity of an aeroplane can cause certain navigation systems to give false indications.This is particularly true of the:

- a) Weather radar
- b) VOR
- c) DME
- d) Orbital plane and the Earth's axis

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---

**54. What does QDR mean?**

- a) Magnetic heading to the station (no wind)
- b) Magnetic bearing from the station
- c) True heading to the station
- d) True bearing from the station

---

**55. How does relative humidity and the dewpoint in an unsaturated air mass change with varying temperature?**

- a) When temperature increases, the relative humidity increases, and the dewpoint decreases.
- b) When temperature increases, the relative humidity decreases, and the dewpoint remains constant.
- c) When temperature decreases, the relative humidity and the dewpoint remain constant.
- d) When temperature decreases, the relative humidity decreases, and the dewpoint increases.

---

**56. To optimise one's night-vision performance, it is necessary:- 1: to spend some time getting adapted to low levels of illumination- 2: to increase the instrument panel lighting by reducing the cockpit lighting- 3: not to focus on the point to be observed- 4: to avoid blinding sources of light**

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

---

**57. In a multi-spool turbofan engine, the fan is driven by:**

- a) The rearmost turbine.
- b) All three turbines since they are on a common shaft with the compressor.
- c) The foremost turbine.
- d) The Intermediate Turbine.

---

**58. The optimum cruise altitude increases**

- a) If the temperature (OAT) is increased.
- b) If the tailwind component is decreased.
- c) If the aeroplane mass is decreased.
- d) If the aeroplane mass is increased.

# Simulazione di Esame

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**59. Which information can aircraft in flight obtain by VOLMET:**

---

- a) SIGMET
- b) SPECI and TAF
- c) Runway reports
- d) Aviation routine weather reports (METAR) of specific airports

**60. Traffic load is the difference between:**

---

- a) The operating mass and the basic empty mass.
- b) The take-off mass and the basic empty mass.
- c) The take-off mass and the basic empty mass plus trip fuel.
- d) The take-off mass and the operating mass.

**61. 730 fpm equals:**

---

- a) 1.6 m/s
- b) 5.2 m/s
- c) 2.2 m/sec
- d) 3.7 m/s

**62. A pilot who smokes will lose some of his capacity to transport oxygen combined with hemoglobin. Which percentage of his total oxygen transportation capacity would he give away when he smokes one pack of cigarettes a day?**

---

- a) 5 - 8%
- b) 20 - 25%
- c) 12 - 18%
- d) 0.5 - 2%

**63. What is the radiotelephony call sign suffix for the aeronautical station providing radar service (in general)?**

---

- a) RADAR
- b) RADAR-SERVICE
- c) RADAR-CONTROL
- d) CONTROL

# Simulazione di Esame

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**64. The alternators, when connected, are usually connected:**

---

- a) In Series Mode.
- b) Dependant on the type of generator.
- c) In parallel mode.
- d) Dependant On The Type Of Engine.

**65. Once a pilot has constructed a mental model he/she tends to:**

---

- a) Give undue weight to information that confirms the model
- b) Alter that model unnecessarily frequently
- c) Give equal weight to contradicting and confirming information
- d) Give undue weight to information that contradicts the model

**66. The maximum quantity of fuel that can be loaded into an aircraft's tanks is given as 2200 l. If the fuel density (specific gravity) is given as 0.79 the mass of fuel which may be loaded is:**

---

- a) 1738 kg
- b) 1798 kg
- c) 2098 kg
- d) 2785 kg

**67. ICAO (International Civil Aviation Organization) Appendix 18 is a document dealing with:**

---

- a) The noise pollution of aircraft
- b) The air transport of live animals
- c) The technical operational use of aircraft
- d) The safety of the air transport of dangerous goods

**68. During a flight to Europe, planned in MNPS (Minimum Navigation Performance Specification) airspace, you expect to cross the 30°W meridian at 11H00 UTC**

---

- a) You will then normally be:
- b) Within the organised daytime flight track system.
- c) Outside of the validity period of the organised track system.
- d) Within the polar track system.

# Simulazione di Esame

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**69. Which of the aeronautical chart symbols indicates a DME?**

---

- a) 2
- b) 3
- c) 6
- d) 1

**70. A DME station is located 1000' above MSL. An aircraft flying at FL 370 in ISA conditions which is 15 NM away from the DME station, will have a DME reading of:**

---

- a) 14 NM
- b) 15 NM
- c) 16 NM
- d) Beyond 100 NM because insufficient antenna tilt angle is available with the mapping mode

# Simulazione di Esame

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## Schema Risposte

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

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