

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. When an aircraft will pass through the level of another aircraft on the same track, the following minimum longitudinal separation shall be provided:

- a) 10 minutes at the time the level is crossed.
- b) 15 minutes at the time the level is crossed.
- c) 20 minutes at the time the level is crossed.
- d) 5 minutes at the time the level is crossed.

02. Accident investigation Who is responsible for the initiation of an accident investigation?

- a) The Operators of the same aircraft type.
- b) The Authority of the State in which the accident took place.
- c) The State of design and manufacturer.
- d) The aircraft manufacturer.

03. RADAR instructs aircraft XY-ABC: 'X-BC reset squawk 1015'. What does this mean:

- a) X-BC has been identified by SSR code 1015
- b) X-BC is requested to set new code 1015
- c) X-BC has been identified at 10:15 (UTC)
- d) X-BC is requested to reselect SSR code 1015

04. When it is 0600 Standard Time in Queensland (Australia) the Standard Time in Hawaii (USA) is:

- a) 1200 same day
- b) 1000 previous day
- c) 0600 same day
- d) 0200 previous day

Simulazione di Esame

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05. Radar identification of a departing aircraft can be achieved if a radar blip is observed within a certain distance from the end of the runway. Identification has to be achieved within:

- a) 2NM
- b) 3NM
- c) 1NM
- d) 5NM

06. Which of the following extracts of weather reports could be, in accordance with the regulations, abbreviated to 'CAVOK'? (MSA above ground: LSZB 10000 FT, LSZH 8000 FT, LSGG 12000 FT, LFSB 6000 FT)

- a) LSZB 30004KT 9999 SCT090 10/09 Q1006 NOSIG =
- b) LSZH 26024G52KT 9999 BKN060 17/14 Q1012 RETS TEMPO 5000 TSRA =
- c) LFSB 00000KT 9000 SCT080 22/15 Q1022 NOSIG =
- d) LSGG 22003KT 9999 SCT120 BKN280 09/08 Q1026 BECMG 5000 BR =

07. 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

08. The urgency message to be sent by an aircraft reporting an urgency condition shall contain at least the following elements/details:

- a) Aircraft call sign, destination airport, ETA at destination, route of flight
- b) Aircraft call sign, nature of the urgency condition, pilot's intention, present position, level and heading
- c) Aircraft identification, aerodrome of departure, level and heading
- d) Name of the station addressed, present position, assistance required

09. The dry adiabatic lapse rate has a value of

- a) 2°C/1000FT
- b) 0.65°C/100m
- c) 1°C/100m
- d) 0.5°C/100m

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10. Which phenomena will normally influence the reception of VHF transmission ?

- a) Electrical discharges as they happen frequently in thunderstorms
- b) The ionosphere
- c) Day- and night effect
- d) Level of aircraft and terrain elevations

11. The 'maximum tyre speed' limits:

- a) V1 in KT TAS
- b) VR, or VMU if this is lower than VR
- c) VLOF in terms of ground speed
- d) V1 in KT ground speed

12. On a reciprocating engine aeroplane, to maintain a given angle of attack, configuration and altitude at higher gross mass:

- a) The airspeed will be decreased and the drag increased
- b) The airspeed and the drag will be increased
- c) The airspeed will be increased but the drag does not change
- d) The lift / drag ratio must be increased

13. Where dangerous goods are carried on a flight which takes place wholly or partly outside the territory of a State, which language must be used on the transport document in addition to any other language ?

- a) Spanish
- b) French
- c) English, French, Spanish, Russian, Chinese
- d) English

14. For a twin-engine aeroplane, the standard operational take-off minimums may be used provided an alternate aerodrome is accessible at less than:

- a) 30 minutes at cruising speed with one engine unserviceable.
- b) 30 minutes at cruising speed all engines running.
- c) 60 minutes at cruising speed with one engine unserviceable.
- d) 60 minutes at cruising speed all engines running.

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15. The boundary layer of a wing is:

- a) A turbulent flow around the wing
- b) Created by the normal shock wave at transonic speeds
- c) Caused by suction on the upper wing surface
- d) A layer on the wing in which the stream velocity is lower than the free stream velocity

16. VA is:

- a) The maximum speed at which rolls are allowed.
- b) The speed at which a heavy transport aeroplane should fly in turbulence.
- c) The maximum speed at which maximum elevator deflection up is allowed.
- d) The speed that should not be exceeded in the climb.

17. A lower airspeed at constant mass and altitude requires:

- a) Less thrust and a lower coefficient of lift
- b) A higher coefficient of lift
- c) More thrust and a lower coefficient of drag
- d) More thrust and a lower coefficient of lift

18. The aircraft DME receiver is able to accept replies to its own transmissions and reject replies to other aircraft interrogations because:

- a) Pulse pairs are amplitude modulated with the aircraft registration
- b) Aircraft interrogation signals and transponder responses are 63 MHz removed from each other
- c) The time interval between pulse pairs is unique to that particular aircraft
- d) $\pm 8.0\text{nm}$ for 95% of the flight time.

19. The reason for having a low pressure fuel-cooled oil cooler in a recirculatory type oil system is to:

- a) Cool Both The Oil And The Fuel.
- b) Cool the oil only.
- c) Heat the fuel only.
- d) Cool the oil and heat the fuel.

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20. 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'.

21. Considering a primary radar system, what kind of aeriels are used?

- a) A directional antenna for transmitting, and an omni-directional antenna for receiving.
- b) One directional antenna for transmitting and one for receiving.
- c) One directional antenna both for transmitting and for receiving.
- d) Multichannel

22. VLE is defined as the:

- a) Maximum flap extended speed.
- b) Maximum speed at which the landing gear may be extended or retracted.
- c) Maximum authorised speed.
- d) Maximum landing gear extended speed.

23. What does the abbreviation 'RVR' mean:

- a) Runway visibility report
- b) Radar vectors requested
- c) Recleared via route...
- d) Runway visual range

24. The height of the marks on the fuselage (or equivalent structure) and on the vertical tail surfaces of heavier than air aircraft shall be:

- a) At least 40 centimetres
- b) At least 20 centimetres
- c) At least 30 centimetres
- d) At least between 20 centimetres and 40 centimetres

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25. 'Frequency wild' in relation to a AC generation system means the generator:

- a) Output frequency varies with engine speed.
- b) Output frequency is too low.
- c) Voltage regulator is out of adjustment.
- d) Output Frequency Is Too High.

26. The Trip Fuel for a jet aeroplane to fly from the departure aerodrome to the destination aerodrome is 5 350 kg. Fuel consumption in holding mode is 6 000 kg/h. The quantity of fuel which is needed to carry out one go-around and land on the alternate airfield is 4 380 kg. The destination aerodrome has a single runway What is the minimum quantity of fuel which should be on board at take-off?

- a) 13 000 kg
- b) 13 230 kg
- c) 11 730 kg
- d) 14 730 kg

27. A pilot can determine the amount of oxygen in a bottle by observing its:

- a) Level.
- b) Pressure.
- c) Temperature.
- d) Volume.

28. Given: Pressure Altitude 29000 FT, OAT -55°C. Calculate the Density Altitude?

- a) 33500 FT
- b) 31000 FT
- c) Calculate the Density Altitude? 33500 FT 31000 FT 26000 FT
- d) 27500 FT

29. An EGT (Exhaust Gas Temperature) indicator for a piston engine is used to:

- a) Assist the pilot to set the correct mixture.
- b) Control the fuel temperature.
- c) Control the cylinder head temperature.
- d) Control The Carburettor Inlet Air Flow.

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30. A DME in tracking mode subsequently experiences a reduction in signal strength will switch the equipment in the first instance to:

- a) Memory mode
- b) Signal controlled search
- c) Standby mode
- d) Behind the aeroplane symbol with the TO flag showing

31. VMC minima for VFR flights in Class B airspace, above 3050 m (10000') MSL are:

- a) 8 km visibility, and clear of clouds
- b) No minima, VFR flights are not permitted
- c) 8 km visibility, 1500 m horizontal and 1000 ft vertical distance from clouds
- d) 5 km visibility, 1500 m horizontal and 1000 ft vertical distance from clouds

32. During certification flight testing on a four engine turbojet aeroplane the actual take-off distances measured are:3050 m with failure of the critical engine recognised at V12555 m with all engines operating and all other things being equal The take-off distance adopted for the certification file is:

- a) 3513 m
- b) 3050 m
- c) 2938 m
- d) 2555 m

33. The recent experience conditions of a commander assigned to a flight on an aircraft by an operator must not be less than:

- a) 3 take-offs and 3 landings as pilot flying on the same type of aircraft or approved simulator in the preceding 90 days
- b) 3 take-offs and 3 landings on this type of aircraft during the last 6 months
- c) 6 take-offs and 6 landings during the last 6 months
- d) 6 take-offs and 6 landings as pilot flying on the same type of aircraft or approved simulator

34. A FAIL SAFE airframe construction design is:

- a) A type construction in which the load is carried by other components if a part of the structure fails.
- b) A simple and cheap type of construction.
- c) A construction which is suitable for aerobatic flight.
- d) A Type Of Construction For Small Aircraft Only.

Simulazione di Esame

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35. Which of the following statements concerning the lifting of a parcel of air is correct ?

- a) Unsaturated parcels cool more rapidly than saturated parcels
- b) Saturated parcels always cool at a rate of 0.65°C per 100m
- c) Unsaturated parcels cool at a rate of 0.65°C per 100m
- d) Unsaturated parcels cool less rapidly than saturated parcels

36. Which one is the most correct statement regarding the range of the DME system?

- a) Operates on the principle of phase comparison
- b) Operates on VHF
- c) Has unlimited range due to ground wave propagation
- d) The range is limited to the line of sight.

37. According to PART-FCL, a professional flight crew license issued by a non-EASA State may be rendered valid for use on aircraft registered in a EASA Member State:

- a) At the discretion of the Authority of the Member State concerned for a period not exceeding the period validity of basic licence
- b) At the discretion of the Authority of that Member State concerned for a period not exceeding one year
- c) At the discretion of the Authority of that Member State concerned for a period not exceeding one year, provided that the basic licence remains valid
- d) At the discretion of the Authority of that Member State concerned for a period not exceeding two years, provided that the basic licence remains valid

38. During a flight over the sea at FL 135, the true altitude is 13500 feet

- a) Local QNH is 1019 hPa. What information, if any, can be gained about the air mass in which the aircraft is flying?
- b) Its average temperature is the same as ISA
- c) It is warmer than ISA
- d) It is colder than ISA

39. Calibrated Air Speed (CAS) is obtained from Indicated Air Speed (IAS) by correcting for the:

- a) Position and instrument errors.
- b) Position and density errors.
- c) Density error.
- d) Instrument error.

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40. Refer to CAP697 MRJT1 Figure 4.5.4 (Descent) A descent is planned at .74/250KIAS from 35000ft to 5000ft. How much fuel will be consumed during this descent?

- a) 150kg
- b) 140kg
- c) 278kg
- d) 290kg[see Annex]

41. For a given aeroplane, the wake turbulence increases when the aeroplane has a:

- a) Low mass and low airspeed
- b) High mass and high airspeed
- c) Low mass and high airspeed
- d) High mass and low airspeed

42. Assuming the usual direction of movement, where will this polar frontal wave have moved to (after a certain time)?

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

43. The total gas volume of the lung is the sum of:1. tidal volume2. inspiratory reserve volume3. expiratory reserve volume4. residual volumeWhich of the following lists the correct combination?

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

44. Given:Distance from departure to destination 2800 NM True track 140W/V 140/100TAS 500 k What is the distance and time of the PET from the departure point?

- a) Distance: 1400 NM Time: 168 min
- b) Distance: 1120 NM Time: 112 min
- c) Distance: 1120 NM Time: 134 min
- d) Distance: 1680 NM Time: 252 min

Simulazione di Esame

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45. 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

46. On an oblate spheroid representing the Earth's shape:

- a) 1 minute of arc along the meridian at low latitudes measures a greater distance than 1 minute of arc along the meridian at high latitudes.
- b) 1 minute of arc along the meridian at 0°N/S measures the same distance as 1 minute of arc at 90°N/S.
- c) 1 minute of arc along the equator measures the same distance as 1 minute of arc along the meridian at a latitude of 45°N/S.
- d) 1 minute of arc along the equator measures a greater distance than 1 minute of arc along the meridian at a latitude of 45°N/S.

47. The aircraft is of Category

- a) The runway has edge lights and high intensity centre line lights. There is an accessible alternate aerodrome and the two pilot crew is IFR qualified on type. The minimum RVR / Visibility required for take-off is: 200 m
- b) 150 m
- c) 150 m if a threshold RVR is available
- d) 300 m

48. When shall the pilot of an aircraft experiencing communications failure keep a watch for instructions passed by visual signals ?

- a) When flying VFR above clouds
- b) When the aircraft is forming part of the aerodrome traffic at a controlled aerodrome
- c) When entering a FIR during an IFR flight
- d) When the aircraft is entering the traffic pattern of an uncontrolled airport

49. Select the letter code for HB-FBO.

- a) Hotel Bravo Fox Roma Olka
- b) Hotel Bravo Fox-trot Bravo Oscar
- c) Hotel Bravo Foxy Romeo Oscar
- d) Hector Brasil Fox-trot Romeo Oscar

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50. How can aviation routine weather reports (METAR) of specific airports be obtained by aircraft in flight:

- a) VOLMET
- b) SIGMET
- c) AFIS
- d) ATIS

51. The Ground Proximity Warning System (GPWS) generates the following sound signal or signals when the aircraft is sinking after a take-off or a go-around:

- a) DON'T SINK always followed by WHOOP WHOOP PULL UP
- b) WHOOP WHOOP PULL UP repetitive only
- c) DON'T SINK followed by WHOOP WHOOP PULL UP if the sink rate overshoots a second level
- d) DON'T SINK repetitive only

52. When refuelling is being performed while passengers are boarding or disembarking the aircraft, one of the requirements is:

- a) The aircraft's stairs be completely extended.
- b) The ground area beneath the exits intended for emergency evacuation and slide deployment areas must be kept clear.
- c) All flight crew shall remain at their station.
- d) Refuelling is prohibited while passengers are boarding and/or disembarking.

53. Which of the alternatives represents the correct relationship?

- a) V_2 and V_1 should not exceed $VMCA$
- b) $VMCG$ and V_1 should not exceed VR
- c) V_2 and V_1 should not exceed $VMCG$
- d) $VMCL$ and V_1 should not exceed VR

54. Refer to figure: Which figure in the appendix represents the geocentric latitude of position P, which is situated above the surface of the ellipsoid?

- a) Figure
- b) Figure
- c) Figure
- d) Figure

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55. Which of the following is most likely to lead to the dissipation of radiation fog ?

- a) A marked decrease in wind velocity close to the ground
- b) A marked increase in wind velocity near the ground
- c) A build up of a high pressure area resulting in adiabatic warming associated with a sinking air mass
- d) Ground cooling caused by radiation during the night

56. A "close traffic advisory" is displayed on the display device of the TCAS II (Traffic Collision Avoidance System) by:

- a) A blue or white empty lozenge.
- b) A yellow full circle.
- c) A red full square.
- d) A blue or white full lozenge.

57. Which of the following statements is (are) correct with regard to the advantages of computer flight plans ?1. The computer can file the ATC flight plan.2. Wind data used by the computer is always more up-to-date than that available to the pilot.

- a) Both statements
- b) Statement 2 only
- c) Neither statement
- d) Statement 1 only

58. Static pressure acts:

- a) Only in direction of the flow
- b) Only perpendicular to the direction of the flow
- c) In all directions
- d) Only in the direction of the total pressure

59. Given: CON VOR/DME (N5354.8 W00849. 1) Abbey Shrule aerodrome (N5335 W00739) What is the CON radial and DME distance when overhead Abbey Shrule aerodrome?

- a) 296° - 46 NM
- b) 116° - 47 NM
- c) 304° - 47 NM
- d) 123° - 46 NM[see Annex]

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60. From the Loading Manual for the transport aeroplane, the maximum load that can be carried in that section of the aft cargo compartment which has a balance arm centroid at:

- a) 835.5 inches is 6752 kg
- b) 835.5 inches is 3062 kg
- c) 421.5 inches is 2059 lbs
- d) 421.5 inches is 4541 kg

61. During the winter months in mid-latitudes in the northern hemisphere, the polar front jet stream moves toward the

- a) North and speed decreases
- b) South and speed increases
- c) North and speed increases
- d) South and speed decreases

62. Where is the most dangerous zone in a tropical revolving storm?

- a) In the wall of clouds around the eye.
- b) About 600 km away from the eye.
- c) In the centre of the eye.
- d) Anywhere in the eye.

63. The Maximum Zero Fuel Mass is the mass of the aeroplane with no usable fuel on board. It is a limitation which is:

- a) Governed by the requirements of the centre of gravity limits and the structural limits of the aeroplane.
- b) Tabulated in the Flight Manual against arguments of airfield elevation and temperature.
- c) Listed in the Flight Manual as a fixed value. It is a structural limit.
- d) Governed by the traffic load to be carried. It also provides protection from excessive 'wing bending'.

64. Motor programmes are:

- a) Rules that enable us to deal with novel situations
- b) Rules that enable us to deal with preconceived situations
- c) Stored routines that enable patterns of behaviour to be executed without continuous conscious control
- d) Stored routines that enable patterns of behaviour to be executed only under continuous conscious control

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65. Given: TAS = 198 kt, HDG (°T) = 180, W/V = 359/25. Calculate the Track(°T) and GS?

- a) 1: 5 000 000
- b) 1: 3 000 000
- c) 1: 1 000 000
- d) 1: 6 000 000

66. The cornea and the crystalline lens of the eye:

- a) Allow for the regulation of the amount of light admitted into the eye
- b) Keep the retina clean and healthy
- c) Permit the reception and conversion of visual stimuli to images interpreted by the brain
- d) Cause the convergence of light rays onto the retina

67. What do the spoken words " PAN PAN MEDICAL " mean ?

- a) The message which follows concerns a protected medical transport operated by aircraft assigned exclusively to medical transportation
- b) The phrase/signal is inadmissible in radiotelephony
- c) The aircraft has an urgent need of medical care upon landing at destination airport
- d) The aircraft has a sick passenger on board and requests priority to land

68. Judgement is based upon:

- a) A decision making process involving physical sensations and their transfer to manually operate the aircraft controls
- b) The development of skills from constant practice of flight manoeuvres
- c) A process involving a pilot's attitude to take and to evaluate risks by assessing the situation and making decisions based upon knowledge, skill and experience
- d) The ability to interpret the flight instruments

69. A fatigued pilot

- a) Is acting similar as when encountering a state of depression
- b) Will get precordial pain
- c) Will show signs of increased irritability
- d) Considerably increases the ability to concentrate

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70. In the alveoli gas exchange takes place (external respiration). Which gas will diffuse from the blood into the lungs?

- a) Carbon dioxide.
- b) Oxygen.
- c) Ambient air.
- d) Carbon monoxide.

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Schema Risposte

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

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