

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. What does the phrase 'Squawk 1234' mean:

- a) Make a test transmission on 123.4 MHz
- b) Give a short count for DF (direction finder)
- c) Standby on frequency 123.4 MHz
- d) Select code 1234 on the SSR transponder

02. LFPG 221100Z 1219 22010KT 4500 RA BKN010 OVC015 TEMPO 1214 1500 +RA OVC005 FM1430 29020G35KT 6000 SHRA BKN008TCU OVC015 TEMPO 1619 25010KT 9999 NSW BKN020 PROB30 TEMPO 1619 1500 TSGR BKN007CBWhat is the most likely visibility for landing at 13:45Z?

- a) 1500 m
- b) 4500 m
- c) 12000 m
- d) 6000 m

03. What does the phrase 'Verify' mean:

- a) Read back VDF bearing
- b) Repeat your last transmission
- c) Consider that transmission as not sent
- d) Check and confirm with originator

04. The one engine out take-off run is the distance between the brake release point and:

- a) The lift-off point
- b) The point where V2 is reached
- c) The middle of the segment between VLOF point and 35 ft point
- d) The point half way between V1 and V2

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05. Outer marker transmits on 75 MHz and has an aural frequency of:

- a) 1300 Hz
- b) 400 Hz
- c) 3000 Hz
- d) 190 NM

06. In relation to primary radar, what does the term Pulse Recurrence Frequency signify?

- a) The number of pulses transmitted per second.
- b) The time between each transmission of pulses.
- c) The number of revolutions performed by the radar antenna per minute.
- d) Uses pulse technique to determine the radial.

07. An aircraft manoeuvring in an airport's circuit receives a series of red flashes from the control tower. This signifies that the aircraft must:

- a) Return to land and that clearance to land will be communicated in due course.
- b) Give way to another aircraft.
- c) Not land for the moment regardless of previous instructions.
- d) Not land because the airport is not available for landing.

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

09. When completing Item 9 of the ATC flight plan, if there is no appropriate aircraft designator, the following should be entered:

- a) The most descriptive abbreviation
- b) 'XXXX' followed by an entry in Item 18
- c) 'NONE'
- d) 'ZZZZ' followed by an entry in Item 18

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10. Flight crew members on the flight deck shall keep their safety belt fastened:

- a) Only during take off and landing
- b) While at their station
- c) From take off to landing
- d) Only during take off and landing and whenever deemed necessary by the commander in the interest of safety

11. Whenever ATIS is provided, the broadcast information shall be updated

- a) At least every half an hour independently of any significant change
- b) Immediately a significant change occurs
- c) As prescribed by the state
- d) As prescribed by the meteorological office

12. For a twin engine aeroplane, non ETOPS, when the weather conditions require a take-off alternate to be selected, it shall be located, in still air conditions, within:

- a) 2 hours of flight time at single engine cruising speed
- b) 1 hour of flight time at cruising speed
- c) 2 hours of flight time at cruising speed
- d) 1 hour of flight time at single engine cruising speed

13. Which of the following best describes the intertropical convergence zone ?

- a) The zone where the trade winds of the northern hemisphere meet those of the southern hemisphere.
- b) The zone where the west winds meet the subtropical high pressure belt.
- c) The zone where cold fronts form in the tropics.
- d) The zone where the Harmattan meets the north-easterly trade winds over Africa.

14. The DME (Distance Measuring Equipment) operates within the following frequencies:

- a) 329 to 335 MHz
- b) 108 to 118 MHz
- c) 962 to 1213 kHz.
- d) Greater detail can be obtained at the more distant ranges of the smaller water droplets

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15. An aeroplane, which is scheduled to fly an oceanic sector, is due to depart from a high altitude airport in the tropics at 1400 local time. The airport has an exceptionally long runway. Which of the following is most likely to be the limiting factor(s) in determining the take - off mass ?

- a) Maximum zero fuel mass.
- b) Altitude and temperature of the departure airfield.
- c) En route obstacle clearance requirements.
- d) Maximum certificated take - off mass.

16. Which statement is correct concerning the effect of the application of carburettor heat?

- a) The Volume Of Air Entering The Carburettor Is Reduced, Thus Leaning The Fuel/air Mixture.
- b) The density of the air entering the carburettor is reduced, thus enriching the fuel/air mixture.
- c) The volume of air entering the carburettor is reduced, thus enriching the fuel/air mixture.
- d) The Density Of The Air Entering The Carburettor Is Reduced, Thus Leaning The Fuel/air Mixture.

17. Which of these statements best describes the meaning of the phrase 'Standby' ?

- a) Continue on present heading and listen out
- b) Select STANDBY on the SSR transponder
- c) Wait and I will call you
- d) Permission granted for action proposed

18. On a chart, the distance along a meridian between latitudes 45°N and 46°N is 6 cm. The scale of the chart is approximately:

- a) 1: 1 000 000
- b) 1: 1 850 000
- c) 1: 18 500 000
- d) 1: 185 000

19. High speed buffet is induced by

- a) Boundary layer control.
- b) Expansion waves on the wing upper surface.
- c) Boundary layer separation due to shock wave formation.
- d) A shift of the centre of gravity.

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20. The ISO-ECHO facility of an airborne weather radar is provided in order to:

- a) Give an indication of cloud tops
- b) Detect areas of possible severe turbulence in cloud
- c) Extend the mapping range
- d) 666 km

21. 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

22. What happens to the drag of a jet aeroplane if, during the initial climb after take off, constant IAS is maintained?(Assume a constant mass)

- a) The drag decreases
- b) The drag increases considerably
- c) The drag increases initially and decreases thereafter
- d) The drag remains almost constant

23. Given: true course (TC) 017 W/V 340/30TAS 420 kt Find: wind correction angle (WCA) and ground speed (GS)

- a) WCA +2° GS 396 kt
- b) WCA -2° GS 426 kt
- c) WCA -2° GS 396 kt
- d) WCA +2° GS 416 kt

24. A pilot wishes to turn right through 90° on to North at rate 2 at latitude of 40 North using a direct reading compass. In order to achieve this the turn should be stopped on an indicated heading of approximately:

- a) 360°
- b) 330°
- c) 010°
- d) 030°

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25. An applicant for a commercial pilot licence aeroplane shall have completed in aeroplanes not less than:

- a) 200 hours of flight time or 150 hours if completed during a course of approved training as a pilot of aeroplanes
- b) 150 hours of flight time and 100 hours as pilot in command
- c) 200 hours of flight time and 70 hours as pilot in command
- d) 200 hours of flight time and 80 hours as pilot in command

26. The frequency used for the first transmission of a 'MAYDAY' call shall be:

- a) Any other international emergency frequency
- b) The distress frequency 121.5 MHz
- c) Any frequency at pilot's discretion
- d) The frequency currently in use

27. 1. Lively information is easier to take into consideration for creating a mental picture than boring information. 2. The sequence in which information is offered is also important for the use the pilot makes of 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

28. What does the word 'disregard' mean?

- a) Consider that transmission as not sent
- b) Wait and I will call you
- c) Annul the previously transmitted clearance
- d) An error has been made in this transmission

29. The trailing edge flaps when extended:

- a) Degrade the best angle of glide
- b) Significantly lower the drag
- c) Significantly increase the angle of attack for maximum lift
- d) Increase the zero lift angle of attack

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30. The stall speed in a 60° banked turn increases by the following factor:

- a) 1.41
- b) 2.00
- c) 1.30
- d) 1.07

31. An aircraft is flying a 3° glidepath and experiences a reduction in groundspeed from 150 kt at the outer marker to 120 kt over the threshold. The effect of this change in groundspeed on the aircraft's rate of descent will be a decrease of approximately:

- a) 50 FT/MIN
- b) 250 FT/MIN
- c) 100 FT/MIN
- d) 150 FT/MIN

32. In accordance with JAR-OPS 1, an airplane whose maximum take-off mass exceeds 5 700 kg or whose maximum approved passenger seating configuration is greater than 9 seats and less than 200 seats must be equipped with a:

- a) Crash axe or a crow-bar in the flight deck.
- b) Crow-bar in the flight deck and a crash axe in the passenger compartment.
- c) Crash axe in the flight deck and a crow-bar in the passenger compartment.
- d) Crash axe and a crow-bar in the passenger compartment.

33. The datum used for balance calculations is:

- a) Chosen on the longitudinal axis of the aeroplane, and necessarily situated between the nose and the tail of the aircraft
- b) Chosen on the longitudinal axis of the aeroplane, but not necessarily between the nose and the tail of the aircraft
- c) Chosen on the longitudinal axis of the aircraft, and always at the fire-wall level
- d) Chosen on the longitudinal axis of the aircraft and necessarily situated between the leading edge and trailing edge of the wing

34. How, if at all, is the relative humidity of an unsaturated air mass influenced by temperature changes?

- a) It decreases with increasing temperature.
- b) It is only influenced by the amount of water vapor.
- c) It is not influenced by temperature changes.
- d) It increases with increasing temperature.

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35. The two signals transmitted by a conventional VOR ground station are 90° out of phase on magnetic:

- a) South
- b) West
- c) East
- d) Slant range.

36. Consider the following statements on the great circle and the rhumb line running through the same two positions:

- a) The rhumb line will in most cases be located closer to the equator than the great circle.
- b) All statements are correct.
- c) The great circle will in most cases run through an area of higher latitude than the rhumb line.
- d) The great circle will in most cases be shorter of the two.

37. During a power change on an engine equipped with a constant speed propeller, a wrong combination of manifold pressure and RPM values results in excessive pressures in the cylinders. This is the case when one simultaneously selects a ...

- a) High manifold pressure and low rpm.
- b) Low manifold pressure and low RPM.
- c) High manifold pressure and high RPM.
- d) Low Manifold Pressure And High Rpm.

38. An aircraft passes overhead a DME station at 12000 feet above the station. At that time, the DME reading will be:

- a) 0 NM.
- b) Approximately 2 NM.
- c) Fluctuating and not significant.
- d) Interference from other NDBs, particularly at night

39. In order to make sound decisions it is important to:

- a) Avoid situational awareness.
- b) Understand why and how we make decisions.
- c) Accept that the captain, because of his/her authority, tends to be correct.
- d) Keep a low level of stress by excluding non-verbal communication.

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40. Which aeronautical chart symbol indicates an uncontrolled route?

- a) 4
- b) 2
- c) 5
- d) 3

41. In case of an engine failure which is recognized at or above V1:

- a) A height of 50 ft must be reached within the take-off distance
- b) The take-off must be rejected if the speed is still below VLOF
- c) The take-off should be rejected if the speed is still below VR
- d) The take-off must be continued

42. In the ATC flight plan Item 10 (equipment), the letter to indicate the carriage of a serviceable transponder - mode A (4 digits-4096 codes) and mode C, is:

- a) B
- b) A
- c) C
- d) P

43. Full scale deflection of the localiser needle indicates that the aircraft is approximately:

- a) 5° offset from the localiser centreline.
- b) 1.25° offset from the localiser centreline.
- c) 2.5° offset from the localiser centreline.
- d) 10° offset from the localiser centreline.

44. Which word or phrase shall be used if you want to say: 'Reduce your rate of speech'?

- a) Repeat
- b) Words twice
- c) Say again
- d) Speak slower

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45. ATS airspace's where IFR and VFR flights are permitted, all flights are subject to air traffic control service and are separated from each other is classified as:

- a) Class
- b) Class
- c) Class E.
- d) Class

46. Out of the list of possible measures to counteract hyperventilation, the most effective measure is:

- a) Avoid strenuous flight manoeuvres
- b) Hold breath
- c) Speak soothingly and get the person to breathe slowly
- d) Breathe into a plastic or paper bag

47. An aircraft in climb or descent is considered to have crossed a level when the SSR Mode C derived level information indicates that it has passed this level in the required direction by:

- a) More than 300 ft.
- b) ± 300 ft.
- c) 300 ft.
- d) More than 200 ft.

48. What is the correct way to transmit and read back frequency 120.375 MHz (VHF channel separated by 25 KHz):

- a) One two zero decimal three seven five
- b) One twenty decimal three seven
- c) One two zero three seven
- d) One two zero decimal three seven

49. Which of the following calls is a 'general call'?

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

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50. Which parameter will change first, when penetrating an horizontal windshear ?

- a) Indicated airspeed.
- b) Groundspeed.
- c) Vertical speed.
- d) Pitch angle.

51. Which design features improve static lateral stability?1. Anhedral.2. Dihedral.3. Forward sweep.4. Sweepback.The combination that regroups all of the correct statements is:

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

52. Given the following data calculate the CG as a %MAC when 12000N of last minute cargo is added to a hold 10m from the datum:AUM 46000NLEMac 14m from datum MAC 4.6mCurrent CG 15.4m from datum

- a) 29.25%
- b) 25%
- c) 30.5%
- d) 27.5%

53. The vane of a stall warning system with a flapper switch is activated by the change of the:

- a) Centre of pressure
- b) Centre of gravity
- c) Stagnation point
- d) Point of lowest pressure

54. The pneumatic ice protection system is mainly used for:

- a) Pitot Tubes.
- b) Wings.
- c) Engine intakes.
- d) Propellers.

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55. Incapacitation is most dangerous when it is:

- a) Obvious
- b) Sudden
- c) Insidious
- d) Intense

56. In central Europe when is the greatest likelihood for thunderstorms due to warm updrafts?

- a) Around midnight.
- b) Early morning.
- c) Mid - afternoon.
- d) Late morning.

57. Which of the following aeroplane parts affect induced drag most?

- a) Wing root junction
- b) Engine cowling
- c) Landing gear
- d) Wing tip

58. Which of the following satellite navigation systems has Full Operational Capability (FOC) and is approved for specified flights under IFR conditions in Europe?

- a) COSPAS-SARSAT
- b) NNSS-Transit
- c) GLONASS
- d) Satellite to ground time lag

59. With what type of cloud is '+TSRA' precipitation most commonly associated?

- a) SC
- b) AS
- c) NS
- d) CB

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60. When a persistent over-excitation fault is detected on only one AC generator, the protection device opens the:

- a) Tie Breaker.
- b) Exciter breaker, generator breaker and tie breaker.
- c) Exciter breaker and generator breaker.
- d) Generator Breaker And Tie Breaker.

61. 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

62. Except in some special cases the establishment of change-over points should be limited to route segments of

- a) 50 NM or more
- b) 75 NM or more
- c) 100 NM or more
- d) 60 NM or more

63. Which one of the following, concerning great circles on a Direct Mercator chart, is correct?

- a) They approximate to straight lines between the standard parallels
- b) They are all curves concave to the equator
- c) They are all curves convex to the equator
- d) With the exception of meridians and the equator, they are curves concave to the equator

64. Fastair 345 has been instructed 'Standby 118.9 for TOWER'. What does this instruction mean?

- a) Fastair 345 shall establish radio contact with TOWER on frequency 118.9
- b) Fastair 345 shall change to frequency 118.9 on which information is being broadcast
- c) Fastair 345 shall squawk standby and then establish radio contact with TOWER on frequency 118.9
- d) Fastair shall change to frequency 118.9 and listen out, but the TOWER will initiate further communications

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65. With all other quantities being constant, the density of the atmosphere increases with increasing

- a) Air pressure
- b) Temperature
- c) Stability
- d) Relative humidity

66. A repetitive flight plan (RPL) is filed for a scheduled flight: Paris-Orly to Angouleme, Paris Orly as alternate. Following heavy snow falls, Angouleme airport will be closed at the expected time of arrival. The airline decides before departure to plan a re-routing of that flight to Limoges.

- a) The RPL must be cancelled for that day and a specific flight plan has to be filed.
- b) The pilot-in-command must advise ATC of his intention to divert to Limoges at least 15 minutes before the planned time of arrival.
- c) It is not possible to plan another destination and the flight has to be simply cancelled that day (scheduled flight and not chartered).
- d) The airline's 'Operations' Department has to transmit a change in the RPL at the ATC office, at least half an hour before the planned time of departure.

67. Given: TAS 487kt, FL 330, Temperature ISA + 15. Calculate the MACH Number?

- a) 0.84
- b) 0.76
- c) 0.81
- d) 0.78

68. Given: TAS = 125 kt, True HDG = 355°, W/V = 320°(T)/30kt. Calculate the true track and GS?

- a) 345 - 100 kt
- b) 005 - 102 kt
- c) 002 - 98 kt
- d) 348 - 102 kt

69. The diurnal variation in temperature is largest when

- a) The sky is clear and the wind is strong
- b) The sky is overcast and the wind is weak
- c) The sky is clear and the wind is weak
- d) The sky is overcast and the wind is strong

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70. An ATS airspace where IFR and VFR flights are permitted, all flights are subject to air traffic control service and are separated from each other is classified as

- a) Airspace B
- b) Airspace E
- c) Airspace D
- d) Airspace C

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Schema Risposte

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

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