

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. Your flight manual does not include specific supplementary information on landing distances on wet runways and the service bulletins or weather reports indicate that the runway may be wet at the estimated time of arrival. The required landing distance on a dry runway must be increased by:

- a) 18 %
- b) 20 %
- c) 15 %
- d) 17,6 %

02. DOC 4444 (ICAO) establishes, that wake turbulence separation minima shall be based on a grouping of aircraft types into three categories according to the maximum certificated take-off mass. Heavy (H) Category, are all aircraft types of:

- a) 135 000 Kg or more
- b) Less than 136 000 Kg but more than 126 000 Kg
- c) 136 000 Kg or more
- d) 146 000 Kg or more

03. Which of the following lists all the stages of flight when is it possible to change the route in the active flight plan on an FMS equipped aircraft?

- a) Only before the flight plan is activated
- b) Only before take-off
- c) Only once the aircraft is airborne.
- d) At any time before take-off and throughout the flight

04. The purpose of the first aid oxygen is to:

- a) Provide undiluted oxygen to passengers for physiological reasons following a cabin depressurisation.
- b) Provide the flight crew with respiratory assistance after depressurization.
- c) Supply all the passengers in case of depressurization.
- d) Provide the cabin attendants with respiratory protection.

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05. The angle of attack of a blade section is the angle between the chord line and the:

- a) Induced airflow.
- b) Rotational airflow.
- c) Plane of rotation.
- d) Relative airflow.

06. What are the standard masses used for crew?

- a) 88 kgs for flight crew, 76 kgs cabin crew, not including baggage
- b) 85 kgs for flight crew, 75 kgs cabin crew, not including hand baggage
- c) 88 kgs for flight crew, 76 kgs cabin crew, including baggage.
- d) 85 kgs for flight crew, 75 kgs cabin crew, including hand baggage

07. The W/V (°/kt) at 60° N015° W is

- a) 320/60
- b) 300/70
- c) 115/60
- d) 300/60

08. The transition from SW to NE monsoon in India occurs in

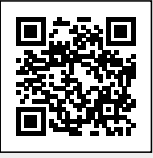
- a) September, October, November
- b) February, March, April
- c) December, January, February
- d) July, August, September

09. An aircraft is weighed prior to entry into service. Who is responsible for deriving the Dry Operational Mass from the weighed mass by the addition of the 'operational items' ?

- a) The Operator.
- b) The commander of the aircraft.
- c) The aircraft manufacturer or supplier.
- d) The appropriate Aviation Authority.

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10. The function of ribs in a wing is to:

- a) Withstand The Torsional Loads.
- b) Withstand all the structural loads.
- c) Give the wing the desired aerodynamic shape.
- d) Allow Installation Of Fuel Cells In The Wing.

11. Planning an IFR-flight from Paris (Charles de Gaulle) to London (Heathrow) for the twin jet aeroplane. Given: Estimated Take-off Mass (TOM) 52000 kg, Airport elevation 387 ft, FL 280, W/V 280°/40 kt, ISA Deviation -10°C, Average True Course 340° Find: Time to the top of climb (TOC)

- a) 3 min
- b) 11 min
- c) 15 min
- d) 12 min[see Annex]

12. A synchroscope is used on aircraft to:

- a) Reduce the vibration of each engine.
- b) Set several engines to the same speed.
- c) Achieve optimum control of on-board voltages.
- d) Reduce the RPM of each engine.

13. A cumulonimbus cloud at mid-latitudes in summer contains

- a) Only water droplets
- b) Only ice crystals
- c) Ice crystals, water droplets and supercooled water droplets
- d) Ice crystals and water droplets but never supercooled water droplets

14. A public transport aircraft is intended to be operated at FL 390. The total number of oxygen masks (dispensing units and outlets) in the cabin must be at least the same as the total number of:

- a) Passengers.
- b) Seats.
- c) Passengers exceeded by 10%.
- d) Seats exceeded by 10%.

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15. Which of the figures depicts an Electronic Flight Instrument System (EFIS) display in FULL VOR/ILS mode with an VOR frequency selected?

- a) Figure 1
- b) Figure 6
- c) Figure 5
- d) Radio communication failure

16. 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

17. The rate of descent required to maintain a 3.25° glide slope at a groundspeed of 140 KT is approximately:

- a) 850 fpm
- b) 760 fpm
- c) 700 fpm
- d) 670 fpm

18. The take-off mass of an aeroplane is 117 000 kg, comprising a traffic load of 18 000 kg and fuel of 46 000 kg. What is the dry operating mass?

- a) 64 000 kg
- b) 53 000 kg
- c) 99 000 kg
- d) 71 000 kg

19. Alert phase is defined as follows:

- a) A situation related to an aircraft which reports that the fuel on board is exhausted.
- b) A situation where an apprehension exists as to the safety of an aircraft and its occupants.
- c) A situation related to an aircraft and its occupants are considered to be in a state of emergency.
- d) An emergency event in which an aircraft and its occupants are considered to be threatened by a danger.

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20. What does the phrase 'Read back' mean:

- a) Repeat all, or the specified part, of this message back to me exactly as received
- b) Check and confirm with originator
- c) Did you correctly receive this message?
- d) Let me know that you have received and understood this message

21. A location in the aircraft which is identified by a number designating its distance from the datum is known as:

- a) Station.
- b) Index.
- c) MA
- d) Moment.

22. Which of the following radar equipment operate by means of the pulse technique?1. Aerodrome Surface Movement Radar2. Airborne Weather Radar3. Secondary Surveillance Radar (SSR)4. Aerodrome Surveillance (approach) Radar

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

23. During radar-control, a 'radar-controller' shall issue a missed-approach instruction, in case the 'tower-controller' has not issued a 'landing-clearance' at the moment the aircraft is:

- a) 1NM from touch-down
- b) 3 NM from touch-down
- c) 2 NM from touch-down
- d) 4 NM from touch-down

24. In case of in-flight stress, one should:

- a) Only trust in oneself
- b) Being sure to know the own limits
- c) Use all available resources of the crew
- d) Always carry out a breathing exercise

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25. What is the purpose of an auto-slat system?

- a) Provide automatically slat IN selection after take-off
- b) Extend automatically when a certain value of angle of attack is exceeded
- c) Assist the ailerons during rolling
- d) Ensures that the slats are always extended when the ground/flight system is in the 'ground' position

26. What winds and air mass characteristics are mainly associated with the winter monsoon in the monsoon regions of the Indian sub-continent?

- a) North-Easterly winds bringing dry and hazy air.
- b) South-Easterly winds carrying warm and humid air.
- c) North-Westerly winds bringing dry and hazy air.
- d) South-Westerly winds carrying warm and humid air.

27. The capacity of a battery is the:

- a) Intensity Withstood By The Battery During Charging.
- b) Amount of ampere-hours that a fully charged battery can supply.
- c) No-load voltage of the battery multiplied by its rated output current.
- d) Number Of Cycles (charging And Discharging) That A Battery Can Withstand Without Deterioration Of Its Cells.

28. Altimeter setting procedures - Transition AltitudeThe transition altitude of an aerodrome shall be as low as possible but normally not less than:

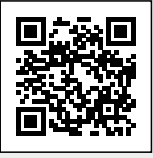
- a) 2500 ft.
- b) 3000 ft.
- c) 1000 ft.
- d) 1500 ft.

29. The primary purpose of the reverse current relay is to:

- a) Prevent The Generator From Delivering Current To The Generator.
- b) Prevent the generator from delivering too much current.
- c) Prevent the battery from delivering current to the generator.
- d) Allow The Battery To Be Charged.

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30. What is the validity period of the 'permanent' data base of aeronautical information stored in the FMC In the B737-400 Flight Management System?

- a) VOR: DME: NDB: compulsory reporting point
- b) Civil airport: VOR: non-compulsory reporting point
- c) VOR: DME: NDB: ILS
- d) Civil airport: VOR: DME: compulsory reporting point

31. What is the frequency separation between consecutive frequencies in the VHF band:

- a) 25 KHz
- b) 75 KHz
- c) 8.33 KHz
- d) 50 KHz

32. What does the instruction 'Go around' mean?

- a) Carry out a missed approach
- b) Proceed with your message
- c) Make a 360° turn
- d) Overtake the aircraft ahead

33. A twin engine aeroplane in cruise flight with one engine inoperative has to fly over high ground. In order to maintain the highest possible altitude the pilot should choose:

- a) The long range speed
- b) The speed corresponding to the minimum value of $(\text{lift} / \text{drag})^{3/2}$
- c) The speed corresponding to the maximum value of the lift / drag ratio
- d) The speed at the maximum lift

34. The amplitude modulation and the colour of an outer marker (OM) is:

- a) 3000 Hz, blue
- b) 400 Hz, blue
- c) 400 Hz, amber
- d) DME callsign was not transmitted, the distance information is sufficient proof of correct operation

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35. Which of the following frequencies is an international emergency frequency:

- a) 6500 KHz
- b) 122.500 MHz
- c) 121.050 MHz
- d) 121.500 MHz

36. The command bars of a flight director:

- a) Are displayed only when flying manually.
- b) Are displayed only when the autopilot is engaged.
- c) May be displayed when flying manually or with the autopilot engaged.
- d) Are always displayed during take-off.

37. A load placed aft of the datum:

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

38. A pilot flying an aircraft at FL 80, tunes in a VOR which has an elevation of 313 m. Given ISA conditions, what is the maximum theoretical distance at which a pilot might expect to receive the VOR signals?

- a) 180 NM
- b) 151 NM
- c) 120 NM
- d) 160°

39. What does the abbreviation 'RVR' mean:

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

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40. By-pass turbine engines are mainly used in commercial aviation, because:

- a) Twin Spool Or Triple Spool Jet Engines Require A High By Pass Ratio.
- b) At high subsonic airspeeds they have a better propulsive efficiency than propeller or straight jet engines.
- c) They are lighter than straight jet engines.
- d) They Produce Less Noise.

41. If the total sum of moments about one of its axes is not zero, an aeroplane would:

- a) Experience an angular acceleration about that axis
- b) Not be affected because the situation is normal
- c) Fly a path with a constant curvature
- d) Be difficult to control

42. Given: Standard Empty Mass 1764 lbs Optional Equipment 35 lbs Pilot + Passenger 300 lbs Cargo 350 lbs Ramp Fuel (Block Fuel) 60 Gal Trip Fuel 35 Gal Taxi Fuel 1.7 Gal Final Reserve Fuel 18 Gal Fuel density 6 lbs/Gal Determine the expected landing mass.

- a) 2589 lbs
- b) 2557 lbs
- c) 2472 lbs
- d) 2599 lbs

43. Low intensity obstacle lights on mobile objects shall be:

- a) Fixed red or preferably blue.
- b) Fixed red or preferably orange.
- c) Flashing blue.
- d) Flashing red or preferably yellow.

44. The thickness of the troposphere varies with

- a) Longitude
- b) Latitude
- c) The wind
- d) Rotation of the earth

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45. An aeroplane is loaded with its centre of gravity towards the rear limit. This will result in:

- a) A reduction in power required for a given speed
- b) An increased risk of stalling due to a decrease in tailplane moment
- c) An increase in longitudinal stability
- d) A reduced fuel consumption as a result of reduced drag

46. The lift formula is:

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

47. Which statement is correct ? During a 'Visual Approach' in Controlled Airspace (Class C):

- a) The pilot to apply separation with other traffic
- b) ATC will apply separation with other traffic
- c) ATC will apply separation with other arriving traffic

48. In order to align an IRS, it is required to insert the local geographical coordinates. This enables the IRS to:
1 - compare the computed latitude with the one entered by the pilot
2 - compare the computed longitude with the one entered by the pilot
3 - know the longitude
The combination that regroups all of the correct statements is:

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

49. Dangerous stall characteristics, in large transport aeroplanes that require stick pushers to be installed, include:

- a) Pitch down and yaw
- b) Distinct aerodynamic buffet
- c) Excessive wing drop and deep stall
- d) Pitch down and increase in speed

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50. An aeroplane is carrying a traffic load of 10320 kg. Complete the necessary sections of the attached appendix and determine which of the answers given below represents the maximum increase in the traffic load

- a) 7000 kg
- b) 8268 kg
- c) 1830 kg
- d) 655 kg[see Annex]

51. The Maximum Certificated Taxi (or Ramp) Mass is that mass to which an aeroplane may be loaded prior to engine start. It is:

- a) A value which varies with airfield temperature and altitude. Corrections are listed in the Flight Manual.
- b) A value which varies only with airfield altitude. Standard corrections are listed in the Flight Manual.
- c) A fixed value which is listed in the Flight Manual.
- d) A value which is only affected by the outside air temperature. Corrections are calculated from data given in the Flight Manual.

52. The centre of gravity location of the aeroplane is normally computed along the:

- a) Longitudinal axis.
- b) Horizontal axis.
- c) Lateral axis.
- d) Vertical axis.

53. Physical exercise in high temperatures (tropical climates) may:

- a) Increase a pilot's resistance to decompression sickness
- b) Cause the pilot to collapse, due to an excess of fluid in the body
- c) Cause dysentery
- d) Cause painful muscle and abdominal cramps

54. An observer is situated on the parallel of 23,5°S. Which statement about the passage of the apparent Sun in relation to this position is correct?

- a) 6L - 395 kt
- b) 2L - 420 kt
- c) 5L - 385 kt
- d) 4L - 415 kt

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55. Which one of the following describes the appearance of rhumb lines, except meridians, on a Polar Stereographic chart?

- a) Ellipses around the Pole
- b) Curves concave to the Pole
- c) Straight lines
- d) Curves convex to the Pole

56. A message preceded by the phrase 'Transmitting blind due receiver failure' shall be transmitted:

- a) On the regional guard frequency
- b) On the international emergency frequency
- c) On the frequency presently in use
- d) On all available aeronautical stations

57. According to the recommended noise abatement procedures contained in the ICAO PANS OPS 8168 Volume I part V, data available indicates that the procedure which results in noise relief during the part of the procedure close to the airport:

- a) Is NAD procedure 2
- b) Is NAD procedure 1
- c) Depends on the wind component
- d) Is either procedure 1 or 2, because there is no difference in noise distribution

58. The great circle distance between position A (59°34.1'N 008°08.4'E) and B (30°25.9'N 171°51.6'W) is:

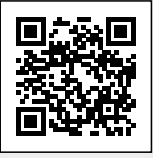
- a) 10 800 km
- b) 2 700 NM
- c) 5 400 NM
- d) 10 800 NM

59. The following minimum radar separation shall be provided between aircraft on the same localizer with additional longitudinal separation as required for wake turbulence:

- a) 2 NM.
- b) 5 NM.
- c) 3 NM.
- d) 2.5 NM.

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60. If nose wheel moves aft during gear retraction, how will this movement affect the location of the centre of gravity (CG) on the aircraft?

- a) It will cause the CG to move aft.
- b) The CG location will change, but the direction cannot be told from the information given.
- c) It will cause the CG to move forward.
- d) It will not affect the CG location.

61. Which one of the following errors can be compensated for by a NAVSTAR/GPS receiver comparing L1 and L2 frequencies?

- a) Tropospheric
- b) Multipath
- c) Receiver noise
- d) 4

62. When independent parallel approaches are being conducted to parallel runways and vectoring to intercept the ILS localizer course or MLS final approach track, the vector shall be such as to enable the aircraft to be established on the ILS localizer course or MLS final approach track in level flight for:

- a) At least 1.5 NM prior to intercepting the ILS glide path or specified MLS elevation angle
- b) At least 3.0 NM prior to intercepting the ILS glide path or specified MLS elevation angle
- c) At least 2.5 NM prior to intercepting the ILS glide path or specified MLS elevation angle
- d) At least 2.0 NM prior to intercepting the ILS glide path or specified MLS elevation angle

63. The anti-icing fluid protecting film can wear off and reduce considerably the holdover time:

- a) During strong winds or as a result of the other aircraft engines jet blast.
- b) When the aeroplane is parked facing into wind.
- c) When the temperature of the aeroplane skin is close to 0 °
- d) When the outside temperature is close to 0 °

64. An aircraft was over 'A' at 1435 hours flying direct to 'B'. Given: Distance 'A' to 'B' 2900 NM True airspeed 470 kt Mean wind component 'out' +55 kt Mean wind component 'back' -75 kt The ETA for reaching the Point of Equal Time (PET) between 'A' and 'B' is:

- a) 1744
- b) 1657
- c) 1721
- d) 1846

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65. What does the word "NEGATIVE" mean?

- a) Proposed action granted.
- b) Permission not granted.
- c) Consider that transmission as not sent.
- d) Disregard last instruction.

66. Due to 'Doppler' effect an apparent decrease in the transmitted frequency, which is proportional to the transmitter's velocity, will occur when:

- a) The transmitter and receiver move towards each other
- b) The transmitter moves away from the receiver
- c) There is no relative movement between the transmitter and the receiver
- d) 270 NM

67. Which word shall be used to indicate that an error has been made in a transmission or message?

- a) Negative
- b) Correct
- c) Disregard
- d) Correction

68. In order to align an inertial reference system (IRS), it is required to insert the local geographical coordinates. This enables the IRS to:

- a) Find True North.
- b) Compare the longitude it finds with that entered by the operator.
- c) Initialize the FMS flight plan.
- d) Compare the latitude it finds with that entered by the operator.

69. Iron and brass are commonly used in bimetallic thermometers, because:

- a) They have two different weights.
- b) They have two different values of flexional strength.
- c) They have two different coefficients of linear expansion.
- d) They have two different electrical resistances when the temperature changes.

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70. The engine pressure ratio (EPR) is the ratio of:

- a) The Total Turbine Inlet Pressure To The Total Compressor Inlet Pressure.
- b) Total compressor outlet pressure to the total turbine outlet pressure.
- c) The total turbine outlet pressure to the total compressor inlet pressure.
- d) Total Compressor Inlet Pressure To The Total Turbine Outlet Pressure.

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Schema Risposte

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

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