

Simulazione di Esame

Flight Planning and Monitoring - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

01. If other factors are unchanged, the fuel mileage (nautical miles per kg) is:

- a) Independent from the centre of gravity position
- b) Lower with an aft centre of gravity position
- c) Lower with a forward centre of gravity position
- d) Higher with a forward centre of gravity position

02. Which of the following answers is true?

- a) V1 is higher VLOF
- b) V1 is lower or equal to VR
- c) V1 is lower VMCG
- d) V1 is higher VR

03. 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.

04. What does the abbreviation 'H24' mean?

- a) Sunrise to sunset
- b) Continuous day and night service
- c) No specific working hours
- d) Sunset to sunrise

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05. At a given altitude, the hysteresis error of an altimeter varies substantially with the:

- a) Mach number of the aircraft.
- b) Aircraft attitude.
- c) Time passed at this altitude.
- d) Static temperature.

06. The station pressure used in surface weather charts is:

- a) QFF
- b) QNH
- c) QFE
- d) QNE

07. When the term 'Broken' is used in an aviation routine weather report (METAR), the amount of clouds covering the sky is:

- a) 1 to 4 oktas
- b) 5 to 7 oktas
- c) No clouds below 5000 feet
- d) 8 oktas below 10000 feet

08. When establishing the mass breakdown of an aeroplane, the empty mass is defined as the sum of the:

- a) Basic mass plus variable equipment mass
- b) Empty mass dry plus variable equipment mass
- c) Basic mass plus special equipment mass
- d) Standard empty mass plus specific equipment mass plus trapped fluids plus unusable fuel mass

09. Which statement is correct regarding the ICAO Standard Atmosphere ?

- a) At MSL temperature is 10°C and the decrease in temperature with height is 1°C per 100m
- b) At MSL temperature is 15°C and the decrease in temperature with height is 1°C per 100m
- c) At MSL pressure is 1013.25 hPa and the decrease of temperature with height is 1°C per 100m
- d) At MSL temperature is 15°C and pressure is 1013.25hPa

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10. In case of accidental closing of an aircraft's left static pressure port (rain, birds), the altimeter:

- a) Overreads the altitude in case of a side-slip to the right and displays the correct information during symmetric flight.
- b) Overreads the altitude in case of a sideslip to the left and displays the correct information during symmetric flight.
- c) Underreads the altitude.
- d) Keeps on providing reliable reading in all situations

11. In accordance with OPS 1(Aerodrome Operating Minima), the Category III A approach and landing, the RVR shall not be less than:

- a) 230 m
- b) 250 m
- c) 300 m
- d) 200 m

12. The three types of Authority Gradient Cockpits are:

- a) Autocratic, Laisser-Faire and Synergistic
- b) Authoritative, Followship and Synergistic
- c) Autocratic, Followship and Synergistic
- d) Authoritative, Laisser-Faire and Synergistic

13. Refer to the Student Pilot Route Manual - PARIS CDG Plate 20-3: Planning an IFR-flight from Paris (Charles de Gaulle) RWY 27 to London. Given: Distance from PARIS Charles-de-Gaulle to top of climb 50 NM Determine the distance from the top of climb (TOC) to ABB 116.6.

- a) 24.5 NM
- b) 31 NM
- c) 36.5 NM
- d) 33 NM

14. Flights within NAT region shall be conducted in accordance with IFR when:

- a) Flying above 3.000 ft above ground.
- b) Operating more than 100 NM seaward from the shoreline within uncontrolled airspace.
- c) Operating more than 100 NM seaward from the shoreline within controlled airspace.
- d) Operating at or above FL 60 or 2000 ft above ground whichever is the higher.

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15. Which of the following is likely to have the greatest effect on ADF accuracy?

- a) Interference from other NDBs, particularly during the day
- b) Frequency drift at the ground station
- c) Mutual interference between aircraft aerials
- d) 107 NM

16. What does the abbreviation 'IMC' mean?

- a) In most cases
- b) International meteorological channel
- c) Instrument meteorological conditions
- d) In meteorological conditions

17. Given are:- Maximum structural take-off mass: 72 000 kg- Maximum structural landing mass: 56 000 kg- Maximum zero fuel mass: 48 000 kg- Taxi fuel: 800 kg- Trip fuel: 18 000 kg- Contingency fuel: 900 kg- Alternate fuel: 700 kg- Final reserve fuel: 2 000 kgThe actual take-off mass can never be higher than:

- a) 69 600 kg
- b) 70 400 kg
- c) 72 000 kg
- d) 74 000 kg

18. A gaseous sensor/responder tube fire sensor is tested by

- a) Heating up the sensor with test power connection.
- b) Checking the sensor with pressurized gas.
- c) Checking the wiring harness for faults but not the sensor.
- d) Checking The Continuity Of The System With A Test Switch.

19. Why is a secondary radar display screen free of storm clutter?

- a) The principle of 'echo' return is not used in secondary radar
- b) The frequencies employed are too low to give returns from moisture sources
- c) A moving target indicator facility suppresses the display of static or near static returns
- d) 2 and 4

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20. What does the abbreviation 'RVR' mean:

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

21. A 3-D RNAV system has capability in:

- a) A horizontal plane and cruise management system
- b) A horizontal plane and speed management system
- c) A horizontal plane and vertical plane and timing function
- d) True altitude is obtained from mode S

22. Your aircraft is heading 075°M. The OBI is set to 025°. The VOR indications are 'TO' with the needle showing right deflection. Relative to the stations, you are situated in a quadrant defined by the radials:

- a) 025° and 115°
- b) 295° and 025°
- c) 115° and 205°
- d) 2.5°

23. What does the abbreviation 'SSR' mean:

- a) Search and surveillance radar
- b) Surface strength of runway
- c) Secondary surveillance radar
- d) Standard snow report

24. Which area of a polar front jet stream in the northern hemisphere has the highest probability of turbulence?

- a) Looking downstream, the area to the right of the core.
- b) In the core of the jet stream.
- c) Looking downstream, the area to the left of the core.
- d) Above the core in the boundary between warm and cold air.

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25. What is characteristic of the pamperos?

- a) Katabatic winds in the Atlas Mountains
- b) A marked advance of cold air in South America
- c) Foehn conditions in the Spanish Pyrenees
- d) A marked advance of cold arctic air in North America

26. In a aeroplane, each crew member shall be properly secured by all safety belts and harnesses provided1 - during taxiing 2 - during take-off 3 - during landing4 - whenever deemed necessary by the commander in the interest of safety 5 - during other phases of the flight while at his stationThe combination regrouping all the correct statements is:

- a) 1, 2, 3, 4, 5
- b) 2, 3, 4.
- c) 2, 3, 4, 5
- d) 1, 2, 3, 4

27. Aircraft XY-ABC is making a test transmission with Stephenville TOWER on frequency 118.7. What is the correct phrasing for this transmission:

- a) Stephenville TOWER XY-ABC radio check 118.7
- b) Stephenville TOWER XY-ABC frequency check
- c) Stephenville TOWER XY-ABC signal check
- d) Stephenville TOWER XY-ABC pre-flight check

28. Aeroplane Dry Operating mass 85000 kg Performance limited take-off mass 127000 kg Performance limited landing mass 98500 kg Maximum zero fuel mass 89800 kgFuel requirements for flight - Trip fuel 29300 kgContingency and final reserve fuel 3600 kg Alternate fuel 2800 kg.The maximum traffic load that can be carried on this flight is:

- a) 6300 kg
- b) 7100 kg
- c) 12700 kg
- d) 4800 kg[see Annex]

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29. Which of the following statements is correct?

- a) If the actual centre of gravity is located behind the aft limit of centre of gravity it is possible that the aeroplane will be unstable, making it necessary to increase elevator forces
- b) A tail heavy aeroplane is less stable and stalls at a lower speed than a nose heavy aeroplane
- c) The lowest stalling speed is obtained if the actual centre of gravity is located in the middle between the aft and forward limit of centre of gravity
- d) If the actual centre of gravity is close to the forward limit of the centre of gravity the aeroplane may be unstable, making it necessary to increase elevator forces

30. The aeroplane has a Take Off Mass of 58 000 kg. At this mass the range of safe CG positions, as determined from the appropriate graph in the loading manual, is:

- a) Forward limit 8.2% MAC aft limit 26.2% MAC
- b) Forward limit 9.5% MAC aft limit 26.1% MAC
- c) Forward limit 8.0% MAC aft limit 26.5% MAC
- d) Forward limit 8.5% MAC aft limit 26.1% MAC[see Annex]

31. According to PART-FCL, an applicant for ATPL(A) shall have demonstrated the ability to perform as pilot-in-command, the procedures and manoeuvres of an aeroplane type certificated for:

- a) The carriage of passengers at night.
- b) A minimum crew of two pilots plus a flight engineer.
- c) A minimum crew of two pilots under IFR
- d) Operations by pilots under training.

32. At which levels may Reduced Vertical Separation Minimum (RVSM) be used within the NAT region?

- a) Between FL275 and FL400 inclusive.
- b) Between FL245 and FL410 inclusive.
- c) Between FL290 and FL410 inclusive.
- d) Below FL290.

33. A jet aeroplane is climbing with constant IAS. Which operational speed limit is most likely to be reached?

- a) The Stalling speed
- b) The Maximum operating Mach number
- c) The Mach limit for the Mach trim system
- d) The Minimum control speed air

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34. Air traffic services may require an aircraft to report position when flying east-west, north of 70°N between 10°W and 50°W, every:

- a) 15° of longitude.
- b) 10° of longitude.
- c) 5° of longitude.
- d) 20° of longitude.

35. Which one of the following lists information given by a basic VOR / DME-based Area Navigation System?

- a) Crosstrack distance
- b) alongtrack distance
- c) angular course deviation
- d) 2500 MHz

36. What is meant by the phrase 'readability 2'?

- a) Readable
- b) Readable now and then
- c) Readable but with difficulty
- d) Unreadable

37. On a polar stereographic chart whose grid is parallel with the Greenwich meridian in the direction of the true North pole, the 'true' orientation of the great circle linking point 62N 010E to point 66N 050W is 305. The grid route at the starting point of this great circle is:

- a) 301
- b) 298
- c) 292
- d) 295

38. A jet transport aeroplane is in a straight climb at a constant IAS and constant weight. The operational limit that may be exceeded is:

- a) V
- b) VMO.
- d) MMO.

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39. If during flight a pilot is in a mental condition of 'optimum arousal' he/she will be:

- a) Unprepared to handle a difficult situation
- b) Approaching a condition of complacency or fatigue
- c) Prepared best to cope with a difficult task
- d) In a confused mental state

40. What does the instruction:'Fastair 345 standby 118.9 for TOWER' mean:

- a) Fastair 345 should change frequency to 118.9, on which aerodrome data are being broadcast
- b) Fastair 345 should contact TOWER on 118.9
- c) Fastair 345 should listen on frequency 118.9 on which TOWER will initiate further communications
- d) Fastair 345 should standby on the current frequency

41. The air traffic control unit has reported 'radar contact', what does that mean to the pilot?

- a) The aircraft is subject to positive control
- b) The pilot does not have to follow up the position of the aircraft
- c) Position reports may be omitted
- d) The radar identity of the aircraft has been established

42. In the ATC flight plan Item 15 (Cruising speed), when not expressed as a Mach number, cruising speed is expressed as:

- a) IAS
- b) TAS
- c) Groundspeed
- d) CAS

43. In the ATC flight plan item 7, for a radio equipped aircraft, the identifier must always:

- a) Include the aircraft registration marking
- b) Include the operating agency designator
- c) Be the RTF callsign to be used
- d) Include an indication of the aircraft type

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44. An aeroplane has a stall speed of 100 KT at a load factor $n = 1$. In a turn with a load factor of $n = 2$, the stall speed is:

- a) 141 KT
- b) 200 KT
- c) 70 KT
- d) 282 KT

45. What is the approximate composition of the dry air by volume in the troposphere?

- a) 88 % oxygen, 9 % nitrogen, and the rest other gasses
- b) 10 % oxygen, 89 % nitrogen, and the rest other gasses
- c) 50 % oxygen, 40 % nitrogen, and the rest other gasses
- d) 21 % oxygen, 78 % nitrogen, and the rest other gasses

46. A signal sent by radiotelephony consisting of the spoken words PAN PAN, PAN PAN, PAN PAN means:

- a) The aircraft is diverting from the route cleared because of a thunderstorm and asks for immediate reclearance
- b) Imminent danger threatens the aircraft and immediate assistance is required
- c) An aircraft on final approach is starting the missed approach procedure
- d) The aircraft has a very urgent message to transmit concerning the safety of a ship, aircraft or other vehicle, but immediate assistance is not required

47. A great circle track joins position A ($59^{\circ}\text{S } 141^{\circ}\text{W}$) and B ($61^{\circ}\text{S } 148^{\circ}\text{W}$). What is the difference between the great circle track at A and B?

- a) It increases by 3°
- b) It decreases by 6°
- c) It decreases by 3°
- d) It increases by 6°

48. The use of reduced take-off thrust is permitted, only if:

- a) The actual take-off mass (TOM) including a margin is greater than the performance limited TOM
- b) The take-off distance available is lower than the take-off distance required one engine out at V1
- c) The actual take-off mass (TOM) is greater than the climb limited TOM
- d) The actual take-off mass (TOM) is lower than the field length limited TOM

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49. 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

50. 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

51. What does the word " WILCO" mean?

- a) I read you fine.
- b) I understand your message and will comply with it.
- c) I have received all of your last transmission.
- d) As communication is difficult, I will call you later.

52. Windshear may be described as a change in wind direction and/or speed in space, including updraughts and downdraughts. To counter the effects of windshear the amount of control action that is required is:

- a) Medium
- b) Small
- c) Nil
- d) Substantial

53. Which one of the following statements applies to the tropopause?

- a) It separates the troposphere from the stratosphere
- b) It is, by definition, a temperature inversion
- c) It indicates a strong temperature lapse rate
- d) It is, by definition, an isothermal layer

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54. . For the purpose of aeroplane mass and balance calculations, the datum point is defined as:

- a) A point near the centre of the aeroplane. It moves longitudinally as masses are added forward and aft of its location.
- b) The point through which the sum of the mass values (of the aeroplane and its contents) is assumed to act vertically.
- c) A variable point, that is dependent on the load distribution for its location, from which all balance arms are measured
- d) A fixed point from which all balance arms are measured. It may be located anywhere on the aeroplane's longitudinal axis or on the extensions to that axis.

55. The amount of light which strikes the retina is controlled by:

- a) The ciliary body
- b) The pupil
- c) The lens
- d) The cornea

56. Thunderstorms in exceptional circumstances can occur in a warm front if

- a) The cold air is convectively stable.
- b) The cold air is convectively unstable.
- c) The warm air is convectively stable.
- d) The warm air is convectively unstable.

57. 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.

58. According to international agreements wind direction shall be adjusted to the local variation and given in degrees magnetic:

- a) In upper wind forecast for areas north of lat 60° north or 60° south.
- b) When the local variation exceeds 10° East or 10° West.
- c) When an aircraft on the request by a meteorological watch office (MWO) or at specified points transmits a PIREP
- d) Before landing and take-off

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59. Visual acuity during flight at high altitudes can be affected by:1. anaemia2. smoking in the cockpit3. carbon monoxide poisoning4. hypoxia

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

60. An aeroplane has a servo tab controlled elevator. What will happen if the elevator jams during flight?

- a) Pitch control is lost.
- b) The servo-tab now works as a negative trim-tab.
- c) Pitch control sense is reversed.
- d) The pitch control forces double.

61. Strongly developed cumulus clouds are an indication of

- a) The presence of a low level inversion
- b) Instability in the atmosphere
- c) Poor surface visibility
- d) The presence of warm air aloft

62. What is meant by good microphone technique ?

- a) Use a normal conversation tone, speak clearly and distinctly.
- b) Make large use of hesitation sounds as 'er'.
- c) Keep the microphone far away since it improves the readability.
- d) Speak very loudly into the microphone.

63. In a steep turn to the left, when using flight spoilers for roll assistance and at the same time for reducing the airspeed:

- a) The right aileron will descend, the left one will ascend, the right spoiler will retract and the left one will extend.
- b) The Right Aileron Will Ascend, The Left One Will Descend, The Right Spoiler Will Retract And The Left One Will Extend.
- c) The Right Aileron Will Descend, The Left One Will Ascend, The Right Spoiler Will Extend And The Left One Will Retract.
- d) The Right Aileron Will Ascend, The Left One Will Descend, The Right Spoiler Will Extend And The Left One Will Retract.

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64. When a pilot fills in an ATC flight plan, he must indicate the wake turbulence category. This category is a function of which mass?

- a) Estimated take-off mass
- b) Maximum certified landing mass
- c) Maximum certified take-off mass
- d) Actual take-off mass

65. An aircraft shall not carry munitions of war:

- a) Unless the written permission of the Authority and the operator is obtained.
- b) At all.
- c) Unless they are unloaded and made safe.
- d) Unless the commander agrees.

66. 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.

67. What does the abbreviation 'INS' mean:

- a) Instrument navigation system
- b) International NOTAM system
- c) Inertial navigation system
- d) International navigation service

68. In the Flight Management Computer (FMC) of the Flight Management System (FMS), data relating to V1, VR and V2 speeds is stored in the:

- a) Performance database
- b) Auto flight computer
- c) Navigation database
- d) Air data computer

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69. The Dry Operating Mass is the total mass of the aircraft ready for a specific type of operation but excluding

- a) Usable fuel and traffic load.
- b) Usable fuel, potable water and lavatory chemicals.
- c) Potable water and lavatory chemicals.
- d) Usable fuel and crew.

70. SSR - Transponder When an aircraft is subjected to unlawful interference, the pilot-in-command shall indicate the situation by setting the transponder to Mode A, Code

- a) 7500.
- b) 7000.
- c) 7600.
- d) 7700.

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Schema Risposte

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

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