

Simulazione di Esame

Aircraft General Knowledge - Airframe, Systems, Powerplant - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

01. The centre of gravity is the

- a) Centre of thrust along the longitudinal axis, in relation to a datum line
- b) Point where all the aircraft mass is considered to be concentrated
- c) Neutral point along the longitudinal axis, in relation to a datum line
- d) Focus along the longitudinal axis, in relation to a datum line

02. The spin axis of the turn indicator gyroscope is parallel to the:

- a) Pitch axis.
- b) Yaw axis.
- c) Roll axis.
- d) Longitudinal axis.

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

- a) More than half but less than overcast (5 to 7 oktas)
- b) Half or less than half (3 or 4 oktas)
- c) No clouds below 5000 feet/GND
- d) Sky entirely covered (8 oktas)

04. Maximum Tyre Speed can limit the Lift-off Speed. Which kind of speed can be directly used to determine this limitation?

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

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05. Cognitive and physical rehearsal of actions during training:

- a) Is most important for the acquisition of complex perceptual motor skills
- b) Is more effective than practical training
- c) Leads to an increased error rate
- d) Is most important for self-control

06. 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

07. For three- and four-engined aeroplanes, the take-off alternate, if required, shall be located (in still air conditions) within:

- a) 2 hours flight time at cruising speed with all engines operating.
- b) 2 hours flight time at one-engine-inoperative cruising speed.
- c) 1 hour flight time at cruising speed with all engines operating.
- d) 1 hour flight time at one-engine-inoperative cruising speed.

08. What does the abbreviation 'SSR' mean:

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

09. In the lower layers of the atmosphere due to friction the wind changes direction towards the low pressure area because:

- a) Turbulence is formed and pressure increases
- b) The pressure gradient increases
- c) Turbulence is formed and pressure decreases
- d) Wind speed decreases and therefore Coriolis force decreases

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10. How many stages of sleep are there including REM sleep?

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

11. What does the word 'correct' mean?

- a) That is correct
- b) Negative, the correct version is ...
- c) Permission for proposed action not granted
- d) An error has been made in this transmission. The correct version is ...

12. An aeroplane has a stall speed of 78 KCAS at its gross weight of 6850 lbs. What is the stall speed when the weight is 5000 lbs?

- a) 78 KCAS
- b) 91 KCAS
- c) 57 KCAS
- d) 67 KCAS

13. Compared with a conventional gyro, a laser gyro:

- a) Is influenced by temperature
- b) Has a longer life cycle
- c) Consumes a lot of power
- d) Has a fairly long starting cycle

14. VMO:

- a) Is equal to the design speed for maximum gust intensity
- b) Should be chosen in between VC and VD
- c) Should not be less than VD
- d) Should not be greater than VC

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15. Which of the following equipments works on the interrogation/response principle?

- a) Secondary Surveillance Radar (SSR)
- b) Aerodrome Surface Movement Radar
- c) Airborne Weather Radar (AWR)
- d) + or - 1.25 NM plus 0.25% of the distance measured

16. Divided attention is the ability:1. to execute several mental activities at almost the same time (i.e. when switching attention from outside the aircraft to the airspeed indicator on the instrument panel)2. to monitor the progress of a motor programme (i.e. flying or taxiing the airplane) on a relatively subconscious level, while making a radio call at the same time (requiring a rather conscious level)3 .to select information and check if it is relevant to the task in hand. At the same time no other operation can be performed.4. to delegate tasks to the copilot while concentrating on the procedures

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

17. Alcohol, even when taken in minor quantities

- a) Can make the brain cells to be more susceptible to hypoxia
- b) May improve the mental functions, so that the symptoms of hypoxia are much better to be identified
- c) Will have no effect at all
- d) Will stimulate the brain, making the pilot resistant to hypoxia

18. 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.

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19. 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.

20. Learning to fly naturally induces stress in a student pilot because he is lacking experience. Manifestations of this type of stress are:1. nervousness and channellized attention2. being rough at the controls3. smoke and drink much more alcohol than usual4. airsickness, lack of sleep

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

21. Which one of the following methods is used by a Microwave Landing System (MLS) to indicate distance from the runway threshold?

- a) Timing the interval between the transmission and reception of primary radar pulses from the aircraft to MLS station
- b) Measurement of the frequency shift between the MLS azimuth and elevation transmissions
- c) A precision facility DME
- d) + or - 50° of the runway centre-line

22. Which statement is true ?

- a) QNH can not be 1013.25 hPa
- b) QNH can be lower as well as higher than 1013.25 hPa
- c) QNH can be 1013.25 hPa only for a station at MSL
- d) QNH is lower than 1013.25 hPa at any time

23. Among the systematic errors of the 'directional gyro', the error due to the earth rotation make the north reference turn in the horizontal plane. At a mean latitude of 45°N, this reference turns by...

- a) 7.5°/hour to the right.
- b) 15°/hour to the right.
- c) 7.5°/hour to the left.
- d) 10.5°/hour to the right.

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24. What will be the effect on the reading of an altimeter of an aircraft parked on the ground as an active cold front is passing?

- a) It will remain unchanged
- b) It will first increase then decrease
- c) It will fluctuate up and down by about +/- 50 feet
- d) It will first decrease then increase

25. A pilot wishes to turn right on to a southerly heading with 20° bank at a latitude of 20° North. Using a direct reading compass, in order to achieve this he must stop the turn on an approximate heading of:

- a) 170°
- b) 150°
- c) 200°
- d) 190°

26. Refer to the Student Pilot Route Manual - North Atlantic Plotting Chart. On a direct great circle course from Shannon (5243N 00853W) to Gander (4854N 05432W), the (a) average true course, and (b) distance, are:

- a) A) 281° (b) 2730 NM
- b) A) 244° (b) 1520 NM
- c) A) 262° (b) 1720 NM
- d) A) 281° (b) 1877 NM

27. The induced drag of an aeroplane:

- a) Decreases with increasing gross weight
- b) Is independent of the airspeed
- c) Decreases with increasing airspeed
- d) Increases with increasing airspeed

28. In the MNPS (Minimum Navigation Performance Specification) area, a pilot should first of all take the following action in the event of a failure of the last inertial navigation system:

- a) Set a different heading approximately 45° from the previous one
- b) Request authorisation from Control to track another aircraft
- c) Immediately climb or descend 1000'
- d) Notify Air Traffic Control and wait for a reply within a reasonable time

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29. Reduced take-off thrust should normally not be used when:

- a) The runway is wet
- b) It is dark
- c) The OAT is ISA +10°C
- d) Anti-skid is not usable

30. Distress is defined as:

- a) A condition concerning the safety of an aircraft or of a person on board, but which does not require immediate assistance
- b) A condition concerning the attitude of an aircraft when intercepting the localizer during an ILS approach
- c) A condition of being threatened by serious and/or imminent danger and requiring immediate assistance
- d) A condition concerning the safety of a person on board or within sight and requiring immediate assistance

31. The convergence of meridians:

- a) Is the distance between the meridians in degrees, minutes, and seconds.
- b) Is independent of latitude and longitude.
- c) Is the angular difference between the meridians.
- d) Is greater using rhumb line track than using greater circle.

32. If, in the event of a failure, there is no significant out-of-trim condition or deviation of flight path or attitude but the landing is not completed automatically, such an automatic landing system is considered as:

- a) Fail-operational.
- b) Fail-safe.
- c) Fail-passive.
- d) Fail-redundant.

33. The maximum aft position of the centre of gravity is, amongst others, limited by the:

- a) Maximum longitudinal stability of the aeroplane.
- b) Required minimum value of the stick force per g.
- c) Inability to achieve maximum rotation rate during take-off.
- d) Maximum elevator deflection.

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34. The Zero Fuel Mass and the Dry Operating Mass

- a) Differ by the sum of the mass of usable fuel plus traffic load mass.
- b) Are the same value.
- c) Differ by the mass of usable fuel.
- d) Differ by the value of the traffic load mass.

35. Working memory:

- a) Is unlimited in size
- b) Is sensitive to interruptions which may erase all or some of its contents
- c) Varies considerably in size between an expert pilot and a novice pilot
- d) Is unlimited in duration

36. An aircraft wishes to obtain a bearing from a VDF station that will be plotted on the chart relative to True North. The correct RT call is:

- a) True bearing, true bearing, G-BNKD request true bearing, G-BNK
- b) G-BNKD request QGH, G-BNK
- c) G-BNKD training fix, training fix, training fix, G-BN
- d) G-BNKD request QGH, G-BNK G-BNKD training fix, training fix, training fix, G-BNK G-BNKD request QDM, G-BNK

37. Which of the following combinations is likely to result in the most accurate Area Navigation (RNAV) fixes?

- a) VOR/DME
- b) DME/DME
- c) VOR/VOR
- d) ETD

38. Given: The take-off mass of an aircraft is 8470 kg Total fuel on board is 1600 kg including 450 kg reserve fuel and 29 kg of unusable fuel The traffic load is 770 kg What is the Zero Fuel Mass?

- a) 6899 kg
- b) 6420 kg
- c) 6129 kg
- d) 6870 kg

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39. The true course is 042°. The variation in the area is 6° W and the wind is calm. The deviation card is reproduced in the annex In order to follow this course, the pilot must fly a compass heading of:

- a) 040°
- b) 058°
- c) 044°
- d) 052°

40. During an explosive decompression at flight level 370 (FL 370), your first action will be:

- a) To warn the ATC
- b) To set the transponder to 7700
- c) To comfort your passengers
- d) To put on the oxygen mask

41. The maximum mass for landing could be limited by

- a) The climb requirements with one engine inoperative in the landing configuration.
- b) The climb requirements with one engine inoperative in the approach configuration.
- c) The climb requirements with all engines in the landing configuration but with gear up.
- d) The climb requirements with all engines in the approach configuration.

42. In the ATC flight plan Item 19, emergency and survival equipment carried on the flight should be indicated by:

- a) Placing a tick in the relevant box
- b) Circling the relevant box
- c) Listing the items carried on the 'REMARKS' line
- d) Crossing out the box relevant to any equipment not carried

43. What does 'Friction coefficient 45' in a runway report mean:

- a) Braking action good
- b) Braking action not measurable
- c) Braking action poor
- d) Braking action medium

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44. RADAR instructs aircraft X-BC:'X-BC squawk standby '. What does this mean?

- a) X-BC is requested to standby on the frequency
- b) X-BC is requested to standby for radar vectors
- c) X-BC is requested to switch to standby position
- d) X-BC is requested to standby as the radar controller is busy

45. If an abortive start (hung start) occurs when starting a gas turbine engine, the correct action is to:

- a) Shut down the engine.
- b) Activate both igniter systems.
- c) Move the thrust lever forward to increase fuel flow.
- d) Select The Other Igniter System.

46. Which formula or equation describes the relationship between force (F), acceleration (a) and mass (m)?

- a) $M=F \cdot a$
- b) $A=F \cdot m$
- c) $F=m \cdot a$
- d) $F=m / a$

47. The lowest point of the thrust required curve of a jet aeroplane is the point for:

- a) Maximum specific range
- b) Minimum drag
- c) Minimum specific range
- d) Minimum endurance

48. Which phrase shall be used if you want to say: 'Pass me the following information...':

- a) Request
- b) Say again
- c) Report
- d) Check

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49. Which phrase shall be used to confirm that a message has been repeated correctly:

- a) Correct
- b) That is affirmative
- c) Affirm
- d) That is right

50. Regarding the operating system used for an on-board documentation (charts and company information):

- a) There are no certification requirements
- b) The certification requirements are detailed in EUROCAE standards
- c) The certification requirements are detailed in CS 25/2
- d) The certification requirements are detailed in PART-CAT

51. Special VFR flights may be authorised to operate locally within a control zone when the ground visibility is not less than 1 500 metres, even when the aircraft is not equipped with a functioning radio receiver within class:

- a) E airspace
- b) C, D and E airspace
- c) D airspace
- d) D and E airspace

52. Because of the input/output relationship of an OR gate, it is often referred to as the:

- a) Inhibited' Or 'negated' Gate.
- b) State indicator' gate.
- c) Any or all' gate.
- d) All Or Nothing' Gate.

53. 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

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54. In the ground-air emergency code the symbol "X" means:

- a) Require medical assistance.
- b) Place suitable for helicopter landing.
- c) Yes.
- d) Require assistance.

55. If you are requested to report your height, to which Q-code-setting would you refer?

- a) QNH
- b) QFE
- c) QBI
- d) QDM

56. During a climb, the total pressure probe of the airspeed indicator becomes blocked

- a) If the pilot maintains a constant indicated airspeed, the true airspeed:
- b) Increases until reaching VMO.
- c) Decreases by 1% per 600 FT.
- d) Decreases until reaching the stall speed.

57. A pilot approaching an upsloping runway

- a) Is performing a steeper than normal approach, landing long
- b) Establishes a higher than normal approach speed
- c) May feel that he is higher than actual. This illusion may cause him to land short.
- d) Establishes a slower than normal approach speed with the risk of stalling out

58. Contracting States shall not require the authorized agent or pilot-in-command to deliver to the public authorities concerned, before departure of the aircraft, more than some copies of General Declaration, Cargo Manifest and stores list. The numbers of the copies are:

- a) 2 copies of General Declaration and of Cargo Manifest and of a stores list.
- b) 3 of each.
- c) 2 copies of General Declarations and Cargo Manifest and one copy of a simple stores list.
- d) 2 of each.

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59. The maximum wind velocity (°/kt) shown in the vicinity of MUNICH (48°N 012°E) is:

- a) 300/100
- b) 300/140
- c) 290/110
- d) 300/160

60. When an aircraft subjected to an unlawful interference has landed it shall notify by the most expeditious means of the State of registry of the aircraft and the State of the operator of the landing and shall similarly transmit all other relevant information to the:

- a) Two aforementioned States, each State whose citizens suffered fatalities or injuries, each State whose citizens are known to be on board the aircraft and the ICAO
- b) Two aforementioned States and the ICAO
- c) Two aforementioned States, each State whose citizens suffered fatalities or injuries, each State whose citizens were detained as hostages, each State whose citizens are known to be on board the aircraft and the ICAO
- d) Two aforementioned States, each State whose citizens suffered fatalities or injuries on board the aircraft and the ICAO

61. What is the radiotelephony call sign for the aeronautical station providing flight information service:

- a) FLIGHT INFORMATION CENTRE
- b) FLIGHT CENTRE
- c) INFORMATION
- d) CONTROL

62. For a pressurised aeroplane, certificated to fly above 25 000 ft, all occupants of flight deck seats on flight deck duty shall be supplied with supplemental oxygen during a period in any case no less than:

- a) 2 hours
- b) 10 minutes
- c) 1 hour
- d) 30 minutes

63. In a ditching situation, except for infants, the passengers shall be instructed to inflate their life jackets:

- a) As soon as ditching is prepared.
- b) Immediately on the opening of the exits.
- c) When exiting the aircraft.
- d) Immediately on ditching.

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64. The hydraulic systems which works correctly is shown in the figure:

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

65. The longitudinal separation minima between aircraft departed from the same aerodrome and following the same track, and the preceding aircraft is maintaining a true airspeed of 20 kt or more faster than the succeeding aircraft, is:

- a) 3 minutes.
- b) 5 minutes.
- c) 2 minutes.
- d) 10 minutes.

66. Which statement about a jet transport aeroplane is correct during take-off with the cg at the forward limit and the trimmable horizontal stabiliser (THS) positioned at the maximum allowable aeroplane nose down position?

- a) If the THS position is just within the limits of the green band, the take off warning system will be activated.
- b) Early nose wheel raising will take place.
- c) The rotation will require extra stick force.
- d) Rotation will be normal.

67. What does the phrase 'Go ahead' mean:

- a) Proceed with your message
- b) Yes
- c) Pass me the following information...
- d) Taxi on

68. What does the term 'broadcast' mean?

- a) A radiotelephony transmission from ground station to aircraft in flight
- b) A transmission where no reply is required from the receiving station
- c) A transmission of information relating to air navigation that is not addressed to a specific station or stations
- d) A transmission containing meteorological and operational information to aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations

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69. Deflection of leading edge flaps will:

- a) Decrease drag
- b) Decrease CL_{max}
- c) Not affect critical angle of attack
- d) Increase critical angle of attack

70. An aircraft encountering radio communication failure on an IFR flight in VMC is assumed to:

- a) Leave controlled airspace and continue the flight within uncontrolled airspace
- b) Continue to fly in VMC, land at the nearest suitable aerodrome, report its arrival
- c) Continue the flight to destination aerodrome in any case
- d) Squawk IDENT and proceed to the alternate aerodrome

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Schema Risposte

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

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