

Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot Licence, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

01. Given that:- Maximum structural take-off mass: 146 000 kg- Maximum structural landing mass: 93 900 kg- Maximum zero fuel mass: 86 300 kg- Trip fuel: 27 000 kg- Taxi fuel: 1 000 kg- Contingency fuel: 1350 kg- Alternate fuel: 2650 kg- Final reserve fuel: 3000 kgThe actual TOM can never be higher than:

- a) 120 900 kg.
- b) 146 000 kg.
- c) 121 300 kg.
- d) 120 300 kg.

02. You are on a magnetic heading of 055° and your ADF indicates a relative bearing of 325°. The QDM is:

- a) 200°
- b) 235°
- c) 055°
- d) 020°

03. The part(s) of the eye responsible for night vision:

- a) Are rods and cones
- b) Are the cones
- c) Is the cornea
- d) Are the rods

04. With increasing altitude and constant IAS the static lateral stability (1) and the dynamic lateral/directional stability (2) of an aeroplane with swept-back wing will:

- a) (1) increase (2) increase
- b) (1) increase (2) decrease
- c) (1) decrease (2) increase
- d) (1) decrease (2) decrease

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05. ETOPS flight is a twin engine jet aeroplane flight conducted over a route, where no suitable airport is within an area of:

- a) 60 minutes flying time in still air at the normal cruising speed
- b) 30 minutes flying time at the normal cruising speed
- c) 60 minutes flying time in still air at the approved one engine out cruise speed
- d) 75 minutes flying time at the approved one engine out cruise speed

06. 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

07. Disturbance of the biological clock appears after a:1. bad night's sleep2. day flight Amsterdam - New York3. day flight Amsterdam - Johannesburg4. night flight New York - Amsterdam

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

08. When drugs against sleep disorders and/or nervousity have been taken and the pilot intends to fly, attention has to be paid to

- a) The effect they have on hearing
- b) The effect they have on reaction time and perceptual awareness
- c) Schedule only those pilots, who show no reactions to these medications
- d) The fact that there is no difference in the quality of sleep produced under the influence of those drugs compared to normal drug-free sleep

09. Who shall be satisfied, before flight, that the aircraft's weight is such that flight can be safely made, and that any transported cargo is properly distributed and secured?

- a) The flight engineer.
- b) The operator.
- c) The airline's dispatcher.
- d) The commander.

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10. The tip vortices circulate about each wing tip:

- a) Counter clockwise
- b) Clockwise
- c) From the upper side of the wing toward the underwing
- d) From the underwing toward the upper side of the wing

11. Solid precipitation which is transparent or translucent and has a diameter of 5mm or less formed by the freezing of raindrops or refreezing of melted snow, and usually bounces off hard surfaces, is a description of

- a) Hail
- b) Ice pellets
- c) Small hail
- d) Snow grains

12. For controlled traffic that shall be separated in the vicinity of an airport, separation minima may be reduced:

- a) At the discretion of the air traffic controller
- b) If the commander of the involved aircraft so requests
- c) When the commander in the following aircraft has the preceding aircraft in sight and is able to maintain own separation
- d) Only if the air traffic controller has the involved aircraft in sight

13. What does the term 'clearance limit' mean:

- a) The point to which an aircraft is granted an air traffic control clearance
- b) The time after which an air traffic control clearance will be automatically cancelled if the flight has not been commenced
- c) The time at which an aircraft is given an air traffic control clearance
- d) The time of expiry of an air traffic control clearance

14. The fields affecting a magnetic compass originate from:1. magnetic masses2. ferrous metal masses3. non ferrous metal masses4. electrical currentsThe combination regrouping all the correct statements is:

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

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15. When completing an ATC flight plan for a European destination, clock times are to be expressed in:

- a) Local mean time
- b) Local standard time
- c) UTC
- d) Central European Time

16. An island appears 30° to the left of the centre line on an airborne weather radar display. What is the true bearing of the aircraft from the island if at the time of observation the aircraft was on a magnetic heading of 276° with the magnetic variation 12°W?

- a) 054°
- b) 038°
- c) 234°
- d) 114°

17. The isobars drawn on a surface weather chart represent lines of equal pressure

- a) Reduced to sea level
- b) At a determined density altitude
- c) At height of observatory
- d) At flight level

18. Electrical requirements for an alumel / chromel indicating system are

- a) 3 phase AC for sensor plus 28V DC for gauging
- b) Power for gauge lighting only
- c) 28V DC for sensor plus power for gauge lighting
- d) 3 phase AC for sensor plus 26V AC for gauge lighting

19. You are flying at FL 200. Outside air temperature is -40°C, and the pressure at sea level is 1033 hPa. What is the true altitude?

- a) 20660 feet
- b) 19340 feet
- c) 18260 feet
- d) 21740 feet

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20. Given the following parameters, in a capacitance fuel gauge, the correct formula is: A = area of plates D = distance between plates E = dielectric permittivity

- a) Capacitance = $E \times A / D$
- b) Capacitance = $E \times D \times A$
- c) Capacitance = $A \times D / E$
- d) Capacitance = $E \times D / A$

21. The expression "primary flight control" applies to the: 1) stabilizer 2) rudder 3) speed brake 4) aileron The combination that regroups all of the correct statements is:

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

22. The following fuel consumption figures are given for a jet aeroplane:-standard taxi fuel: 600 kg.-average cruise consumption: 10 000 kg/h.-holding fuel consumption at 1500 ft above alternate airfield elevation: 8000 kg/h.-flight time from departure to destination: 6 hours-fuel for diversion to alternate: 10 200 kg. The minimum ramp fuel load is:

- a) 79 800 kg
- b) 74 800 kg
- c) 77 200 kg
- d) 77 800 kg

23. During deceleration following a landing in a westerly direction, a magnetic compass made for the southern hemisphere indicates:

- a) No apparent turn.
- b) An apparent turn to the south.
- c) No apparent turn only on southern latitudes.
- d) An apparent turn to the north.

24. A constant headwind:

- a) Increases the angle of descent
- b) Increases the rate of descent
- c) Increases the angle of the descent flight path
- d) Increases the descent distance over ground

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25. An aircraft experiencing radio communication failure on an IFR flight in IMC is assumed to:

- a) Proceed to an area from where the flight can be continued according to the visual flight rules
- b) Proceed in accordance with the current flight plan to the designated navigation aid serving the destination aerodrome
- c) Execute a VMC approach at the nearest suitable aerodrome
- d) Divert to the most suitable aerodrome according to the route of flight

26. Which statement is correct about the apparent solar day?

- a) The duration of the apparent solar day is constant throughout a year due to the constant velocity of the earth in its orbit around the sun.
- b) The duration of the apparent solar day is constant throughout a year due to the constant rotational speed of the earth around its axis.
- c) The apparent solar day is the period between two successive transits of the mean sun through the same meridian.
- d) The apparent solar day is the period between two successive transits of the true sun through the same meridian.

27. 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

28. What is the most effective flap system?

- a) Split flap
- b) Plain flap
- c) Fowler flap
- d) Single slotted flap

29. For a twin-engine aeroplane, non ETOPS, the take-off alternate, if required, shall be located (in still air conditions) within:

- a) One hour of flight time, at cruising speed with only one engine operative.
- b) Two hours of flight time at cruising speed all engines operating.
- c) One hour of flight time at cruising speed all engines operating.
- d) Two hours of flight time, at cruising speed with only one engine operative.

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30. Given:ETA to cross a meridian is 2100 UTC GS is 441 ktTAS is 491 ktAt 2010 UTC, ATC requests a speed reduction to cross the meridian at 2105 UTC. The reduction to TAS will be approximately:

- a) 90 kt
- b) 40 kt
- c) The reduction to TAS will be approximately: 90 kt 40 kt 60 kt
- d) 75 kt

31. A aeroplane has a landing mass of 53 000kg. The range of safe CG positions, as determined from the appropriate graph in the loading manual, is:

- a) Forward limit 7.8% MAC aft limit 27.0% MAC
- b) Forward limit 8.7% MAC aft limit 26.8% MAC
- c) Forward limit 7.3% MAC aft limit 26.8% MAC
- d) Forward limit 8.2% MAC aft limit 27.0% MAC[see Annex]

32. The aim of aviation security is the following:

- a) Ensure that adequate maintenance standards are applied by all operators.
- b) Safeguard international civil aviation operations against acts of unlawful interference.
- c) Ensure that commercial flight operations are safe and secure.
- d) Regulate the transportation of dangerous goods by air.

33. Can you suffer from aerodontalgia in the descent?

- a) Only above 10.000 ft
- b) No
- c) Only in pressurised aircraft
- d) Yes

34. At the destination aerodrome the landing distance available is 3000 m. The appropriate weather forecast indicates that the runway at the estimated time of arrival will be wet. For a commercial flight the mass of a turbojet aeroplane at landing must be such that the aeroplane can be landed within:

- a) 2609 m
- b) 1800 m
- c) 2 070 m
- d) 1565 m

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35. What is the effect of tail wind on the time to climb to a given altitude?

- a) The time to climb increases
- b) The time to climb decreases
- c) The time to climb does not change
- d) The effect on the time to climb will depend on the helicopter type

36. 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

37. 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

38. When a RADAR operator says the following to an aircraft: 'fly heading 030', the pilot must fly heading:

- a) 030° magnetic in still air conditions (thereby flying the magnetic track)
- b) 030° true
- c) 030° magnetic
- d) 030° true, in still air conditions (thereby flying the true track)

39. A category III A precision approach (CAT III A) is an approach which may be carried out with a runway visual range of at least:

- a) 100 m
- b) 200 m
- c) 50 m
- d) 250 m

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40. Given: Aircraft heading 160°(M), Aircraft is on radial 240° from a VOR, Selected course on HSI is 250°. The HSI indications are deviation bar:

- a) Behind the aeroplane symbol with the FROM flag showing
- b) Ahead of the aeroplane symbol with the TO flag showing
- c) Ahead of the aeroplane symbol with the FROM flag showing
- d) 360°

41. Significant torsion effects in a wing during flight can be caused by:

- a) Wing Dihedral.
- b) Propwash.
- c) Aileron deflection.
- d) Wing Tip Vortices.

42. . 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

43. In the ATC flight plan Item 19, if the number of passengers to be carried is not known when the plan is ready for filing:

- a) An estimate may be entered but that number may not subsequently be exceeded
- b) The plan should be filed with the relevant box blank
- c) The plan may not be filed until the information is available
- d) 'TBN' (to be notified) may be entered in the relevant box

44. When completing an ATC flight plan, an elapsed time (Item 16) of 1 hour 55 minutes should be entered as:

- a) 0155
- b) 0115
- c) 115M
- d) 1H55

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45. From your cruising altitude at FL 240, you want to descend to flight level 100. Your transmission to the radar controller is:

- a) Request descent to flight level one-zero-zero
- b) We would like to start descent to flight level one-zero-zero
- c) Request to descend one-hundred
- d) Request flight level one-hundred

46. When is an aircraft station allowed to use its abbreviated call sign ?

- a) Only after satisfactory communication has been established
- b) After it has been addressed in this manner by the aeronautical ground station
- c) In dense traffic
- d) Provided no confusion is likely to result

47. A plain in Western Europe with an average height of 500 m (1600 FT) above sea level is covered with a uniform SC layer of cloud during the summer months. At what height above the ground is the base of this cloud to be expected?

- a) 7000 - 15000 FT above ground
- b) 100 - 1500 FT above ground
- c) 15000 - 25000 FT above ground
- d) 1500 - 7000 FT above ground

48. The purpose of a compressor bleed valve is to prevent surging:

- a) At low compressor rpm.
- b) With altitude.
- c) Of the first compressor stages.
- d) Generated By Foreign Object Ingestion.

49. If no ICAO identifier has been attributed to an alternate airport (box 1 6) of a flight plan form...

- a) Write XXXX in box 16 and indicate in box 18 (additional information) ALTN/ followed by the name of the airport
- b) Write ZZZZ in box 16 and indicate in box 18 (additional information) ALTN/ followed by the name of the airport.
- c) Write ZZZZ in box 16 and indicate in box 18 (additional information) DEGT/ followed by the name of the airport.
- d) Write XXXX in box 16 and indicate in box 18 (additional information) DEGT/ followed by the name of the airport

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50. The inner layer of a heated windscreen is made of:

- a) Soft polycarbonate.
- b) Hard perspex.
- c) Glass.
- d) Triplex.

51. Continuous updraughts occur in a thunderstorm during the

- a) Dissipating stage.
- b) Mature stage.
- c) Period in which precipitation is falling.
- d) Initial stage.

52. The crankcase is the component which:

- a) Provides A Mounting For An Oil Cooler.
- b) Converts reciprocating motion into rotary motion.
- c) Provides a mounting point for most of the engine components and in which are the main rotating assemblies located.
- d) Operates Within The Float Chamber.

53. Given: The coordinates of the heliport at Issy les Moulineaux are N48°50' E002°16.5'. What are the coordinates of the position directly on the opposite side of the earth?

- a) S48°50' E177°43.5'
- b) S48°50' W177°43.5'
- c) S41°10' E177°43.5'
- d) S41°10' W177°43.5'

54. Any parallel of latitude is a:

- a) Rhumb line.
- b) Small circle.
- c) Meridian of tangency.
- d) Great circle.

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55. Compared with an oblique shock wave at the same Mach number a normal shock wave has a

- a) Higher total pressure.
- b) Higher total temperature.
- c) Higher loss in total pressure.
- d) Lower static temperature.

56. The holder of a pilot licence when acting as co-pilot performing under the supervision of the pilot in command the functions and duties of a pilot in command shall be entitled to be credit:

- a) The flight time towards the total time required for higher grade of pilot licence in accordance with the requirements of the licensing authority
- b) In full with his flight but not more than 300 hours towards the total time required for a higher grade of pilot licence
- c) 50% of his flight time towards the total time required for higher grade of pilot licence
- d) In full with his flight time towards the total time required for higher grade of pilot licence

57. Refer to CAP 697 Section 2 SEP1 Page 3 Figure 2.1 Time, Fuel and Distance to Climb. Given: Take-off mass 3500 lbs, departure aerodrome pressure altitude 2500 ft, OAT +10°C, First cruising level: FL 140, OAT -5°C Find the time, fuel and still air distance to climb.

- a) 24 min, 7.7 GAL, 47 NAM
- b) 16.5 min, 4.9 GAL, 34.5 NAM
- c) 23.5 min, 7.1 GAL, 48.5 NAM
- d) 23 min, 7.7 GAL, 50 NAM

58. CO (carbon monoxide) present in the smoke of cigarettes can lead to: 1. reduction of time of useful consciousness 2. hypoxia at a lower altitude than normal

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

59. An average true track of 120° is drawn between 'X' (61°30'N) and 'Y' (58°30'N) on a Lambert conformal conic chart with a scale of 1: 1 000 000 at 60°N. The chart distance between 'X' and 'Y' is:

- a) 33,4 cm
- b) 36,0 cm
- c) 66,7 cm
- d) 38,5 cm

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60. The white dumb-bell with black perpendicular bar indicates that:

- a) Landing, take-off and taxiing is allowed on runway and/or taxiway only
- c) Glider flying is performed outside the landing area

61. Signal reception is required from a minimum number of satellites that have adequate elevation and suitable geometry in order for a Satellite-Assisted Navigation System (GNSS/GPS) to carry out independent three dimensional operation, Receiver Autonomous Integrity Monitoring (RAIM) and to isolate any faulty satellite and remove it from contributing to the navigation solution. The number of satellites is:

- a) 4
- b) 7
- c) 5
- d) Performance database

62. When flying in accordance with IFR, which of the following best describes the term 'Visual approach' ?

- a) A visual manoeuvre executed by an IFR flight when the weather conditions at the aerodrome of destination are equal to or better than required VMC minima
- b) An approach executed by an IFR flight unable to maintain VMC
- c) An extension of an instrument approach procedure to bring an aircraft into position for landing on a runway which is not suitably located for straight-in-approach
- d) An approach by an IFR flight when either part or all of an instrument approach procedure is not completed and the approach is executed in visual reference to terrain

63. 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

64. For a fixed-pitch propeller in flight at a given TAS, the blade angle of attack will:

- a) Remain constant if RPM increases.
- b) Decrease if RPM decreases.
- c) Remain constant if RPM decreases.
- d) Increase if RPM decreases.

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65. Landing gear torque links are used to:

- a) Take Up The Lateral Stresses To Which The Gear Is Subjected.
- b) Prevent the extension of the landing gear oleo strut rod.
- c) Prevent rotation of the landing gear piston in the oleo strut.
- d) Maintain The Compass Heading Throughout Taxiing And Take-off.

66. Which 'code letter' shall be chosen to identify a taxiway to be used by an aircraft having a wheel base of 15 m?

- a) Code letter 'D'
- b) Code letter 'F'
- c) Code letter 'E'
- d) Code letter 'C'

67. Which type wind flows downslope becoming warmer and dryer?

- a) Valley wind.
- b) Land breeze.
- c) Anabatic wind.
- d) Foehn wind.

68. Which of the following combinations adversely affects take-off and initial climb performance?

- a) High temperature and high relative humidity
- b) Low temperature and low relative humidity
- c) High temperature and low relative humidity
- d) Low temperature and high relative humidity

69. RADAR instructs aircraft X-BC:'X-BC squawk ident'. What does this mean:

- a) Radar identification has been achieved by correlating an observed radar blip with aircraft XY-ABC
- b) X-BC should perform an identification turn of at least 020 degrees
- c) X-BC shall operate the IDENT button
- d) X-BC shall reselect his assigned mode and code

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70. What is the wavelength of an NDB transmitting on 375 kHz?

- a) 800 m
- b) 8 m
- c) 80 m
- d) The data is based on the direction to the satellite determined at the location of the antenna

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Schema Risposte

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

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