

Simulazione di Esame

Principles of Flight - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

01. Astronomic precession is:

- a) Independent of the latitude
- b) Existing whether the aircraft is on the ground or flying
- c) Zero when the aircraft is on the ground
- d) Depending on the chart used

02. 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

03. The range of wind speed in which radiation fog is most likely to form is:

- a) Between 10 and 15 kt
- b) Below 5 kt
- c) Above 15 kt
- d) Between 5 and 10 kt

04. Regardless of your position, time figures are transmitted with reference to:

- a) Winter time
- b) Local time
- c) Greenwich time
- d) UTC

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05. A passenger's sporting shotgun may be carried on an aircraft:

- a) With the commander's permission, unloaded in an overhead locker.
- b) But not if it is a public transport flight.
- c) With the operator's permission, the commander's knowledge, unloaded and in a place where the passengers have no access.
- d) With the operator's permission.

06. According with DOC 4444 (ICAO), a wake turbulence radar separation minima of 9,3 km (5,0 NM) shall be applied when a:

- a) HEAVY aircraft is crossing behind a HEAVY aircraft, at the same altitude or less than 300 m (1 000 ft)
- b) LIGHT aircraft is crossing behind a HEAVY aircraft, at the same altitude or less than 300 m (1 000 ft)
- c) MEDIUM aircraft is crossing behind a MEDIUM aircraft, at the same altitude or less than 300 m (1 000 ft)
- d) LIGHT aircraft is crossing behind a MEDIUM aircraft, at the same altitude or less than 300 m (1 000 ft)

07. What is the minimum wake turbulence separation criteria when a light aircraft is taking off behind a medium aircraft and both are using the same runway?

- a) 1 minute
- b) 3 minutes
- c) 5 minutes
- d) 2 minutes

08. The duration of civil twilight is the time:

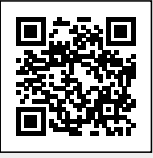
- a) Needed by the Sun to move from the apparent height of 0° to the apparent height of 6°
- b) Agreed by the international aeronautical authorities which is 12 minutes
- c) Between sunset and when the centre of the Sun is 12° below the true horizon
- d) Between sunset and when the centre of the Sun is 6° below the true horizon

09. Given:- Ts the static temperature (SAT)- Tt the total temperature (TAT)- Kr the recovery coefficient- M the Mach number The total temperature can be expressed approximately by the formula:

- a) $T_t = T_s(1 - 0.2 M^2)$
- b) $T_t = T_s(1 + 0.2 M^2)$
- c) $T_t = T_s / (1 + 0.2 K_r M^2)$
- d) $T_t = T_s(1 + 0.2 K_r M^2)$

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10. If all long range navigation systems of an aircraft become unserviceable during a flight in MNPS airspace, and if no instructions are received from the air traffic control, you must consider:

- a) Return to departure airport
- b) Descend below the MNPS space
- c) Land at the nearest airport
- d) Climbing or descending 500 feet

11. The position of a Flight Director command bars:

- a) Repeats the ADI and HSI information
- b) Enables the measurement of deviation from a given position.
- c) Indicates the manoeuvres to execute, to achieve or maintain a flight situation.
- d) Only displays information relating to radio-electric deviation.

12. In relation to the satellite navigation system NAVSTAR/GPS, "All in View" is a term used when a receiver:

- a) Is receiving and tracking the signals of all 24 operational satellites simultaneously
- b) Is tracking more than the required 4 satellites and can instantly replace any lost signal with another already being monitored.
- c) Is receiving the signals of all visible satellites but tracking only those of the 4 with the best geometric coverage
- d) Monitor the satellites' orbits and status

13. The principle of the Schuler pendulum is used in the design of a:

- a) Strapdown inertial system.
- b) Artificial horizon control system.
- c) Directional gyro control system.
- d) Stabilised platform inertial system.

14. Among the factors that increase tolerance to long-duration g forces are:

- a) Anti-g suits and correct use of pilot's harness
- b) Correct use of pilot's harness and tensing of the abdominal muscles
- c) Tensing the leg muscles and correct use of pilot's harness
- d) Bending forward or supine body position and tensing of the abdominal muscles

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15. A directional gyro is:1- a gyroscope free around two axis 2- a gyroscope free around one axis3- capable of self-orientation around an earth-tied direction 4- incapable of self-orientation around an earth-tied direction
The combination which regroups all of the correct statements is:NB: the degree(s) of freedom of a gyro does not take into account its rotor spin axis.

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

16. In which of the following 1850 UTC METAR reports, is the probability of fog formation, in the coming night, the highest?

- a) VRB02KT 2500 SCT120 14/M08 Q1035 NOSIG =
- b) VRB01KT 8000 SCT250 11/10 Q1028 BECMG 3000 BR =
- c) 00000KT 9999 SCT030 21/01 Q1032 NOSIG =
- d) 22004KT 6000 -RA SCT012 OVC030 17/14 Q1009 NOSIG =

17. The Dry Operating Mass includes:

- a) Crew and crew baggage, catering, removable passenger service equipment, potable water and lavatory chemicals.
- b) Passengers baggage and cargo.
- c) Fuel and passengers baggage and cargo.
- d) Unusable fuel and reserve fuel.

18. In the event of communication failure in an MNPS (Minimum Navigation Performance Specification) airspace, the pilot must:

- a) Return to the flight plan route if it is different from the last oceanic clearance received and acknowledged.
- b) Join one of the so-called 'special' routes.
- c) Continue the flight in compliance with the last oceanic clearance received and acknowledged.
- d) Change the flight level in accordance with predetermined instructions.

19. Magnetic compass calibration is carried out to reduce:

- a) Variation.
- b) Deviation.
- c) Acceleration errors.
- d) Parallax error.

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20. A twin-spool engine with a bypass mass flow of 250 kg/s and a HP compressor mass flow of 250 kg/s has a bypass ratio of:

- a) 2
- c) 0.5
- d) 1

21. After alignment of the stable platform of an Inertial Navigation System, the output data from the platform is:

- a) 1000 FT/MIN
- b) 2400 FT/MIN
- c) 1550 FT/MIN
- d) 1650 FT/MIN

22. What does ADF stand for?

- a) Airborne Direction Finding
- b) Aeroplane Direction Finding
- c) Airport Direction Finder
- d) UHF

23. The distress communication and silence conditions shall be terminated by transmitting a message. Which words shall this message include?

- a) Distress traffic ended
- b) Disregard distress communication, OUT
- c) MAYDAY traffic ended
- d) Emergency communication finished

24. To fight a fire in an air-conditioned cargo hold:

- a) Extinguish fire only.
- b) Extinguish fire and reduce air conditioning.
- c) Fire-fighting is not necessary, since the transport of combustible goods in an air-conditioned cargo hold is forbidden.
- d) You turn off the cargo hold ventilation and extinguish fire.

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25. A DME in tracking mode subsequently experiences a reduction in signal strength will switch the equipment in the first instance to:

- a) Memory mode
- b) Signal controlled search
- c) Standby mode
- d) Behind the aeroplane symbol with the TO flag showing

26. 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

27. An aircraft at FL330 is required to commence descent when 65 NM from a VOR and to cross the VOR at FL100. The mean GS during the descent is 330 kt. What is the minimum rate of descent required?

- a) 1650 FT/MIN
- b) 1950 FT/MIN
- c) 1850 FT/MIN
- d) 1750 FT/MIN

28. With zero wind, the angle of attack for maximum range for an aeroplane with turbojet engines is:

- a) Lower than the angle of attack corresponding to maximum endurance
- b) Equal to the angle of attack corresponding to maximum lift to drag ratio
- c) Equal to the angle of attack corresponding to zero induced drag
- d) Equal to the angle of attack corresponding to maximum endurance

29. Hyperventilation is:

- a) A too high percentage of nitrogen in the blood
- b) A decreased lung ventilation
- c) An increased lung ventilation
- d) A too high percentage of oxygen in the blood.

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30. 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°

31. When a LIGHT aircraft is landing behind a MEDIUM aircraft, the wake turbulence non-radar minimum time approach separation, according to DOC 4444 (ICAO), shall be:

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

32. In the NAVSTAR/GPS satellite navigation system, receiver clock error:

- a) Is the biggest part of the total error
- b) It cannot be corrected
- c) Can be minimised by synchronisation of the receiver clock with the satellite clocks
- d) Is corrected by using signals from four satellites

33. A relay is:

- a) A Unit Which Is Used To Convert Electrical Energy Into Heat Energy.
- b) A device which is used to increase electrical power.
- c) A magnetically operated switch.
- d) Another Name For A Solenoid Valve.

34. On the readability scale what does 'Readability 5' mean:

- a) Unreadable
- b) Perfectly readable
- c) Readable but with difficulty
- d) Problem to understand

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35. Given: Distance 'Q' to 'R' 1760 NM Groundspeed 'out' 435 kt Groundspeed 'back' 385 kt The time from 'Q' to the Point of Equal Time (PET) between 'Q' and 'R' is:

- a) 106 MIN
- b) 110 MIN
- c) 102 MIN
- d) 114 MIN

36. Refer to the Student Pilot Route Manual - VFR Chart ED-4 Flying VFR from VILLINGEN (48°03.5'N, 008°27.0'E) to FREUDENSTADT (48°28.0'N, 008°24.0'E). Determine the minimum altitude within a corridor 5 NM left and 5 NM right of the course line in order to stay 1000' clear of obstacles.

- a) 4300 ft
- b) 1500 ft
- c) FL045
- d) 3300 ft

37. 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.

38. Which statement is correct for a side slip condition at constant speed and side slip angle, where the geometric dihedral of an aeroplane is increased ?

- a) The required lateral control force does not change.
- b) The required lateral control force decreases.
- c) The stick force per g decreases.
- d) The required lateral control force increases.

39. If individual masses are used, the mass of an aircraft must be determined prior to initial entry into service and thereafter

- a) Only if major modifications have taken place.
- b) At regular annual intervals.
- c) At intervals of 9 years.
- d) At intervals of 4 years if no modifications have taken place.

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40. 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.

41. Healthy people are usually capable of compensating for a lack of oxygen up to:

- a) 10000 - 12000 feet
- b) 25000 feet
- c) 20000 feet
- d) 15000 feet

42. Supercooled droplets can be encountered

- a) In winter only in high clouds
- b) Only in winter above 10000 FT
- c) At any time of the year
- d) Only in winter at high altitude

43. Select the letter code for HB-FBO.

- a) Hotel Bravo Fox Roma Olka
- b) Hotel Bravo Fox-trot Bravo Oscar
- c) Hotel Bravo Foxy Romeo Oscar
- d) Hector Brasil Fox-trot Romeo Oscar

44. Given: Distance from departure to destination: 210 NM Endurance: 3,5 h True Track: 310 W/V: 270/30 TAS: 120 kt What is the distance of the PSR from the departure point?

- a) 200 NM
- b) 10 NM
- c) 100 NM
- d) 125 NM

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45. A Cat III ILS glidepath transmitter provides reliable guidance information down to:

- a) A maximum height of 200 ft above the runway
- b) The surface of the runway
- c) A maximum height of 50 ft above the runway
- d) Local thunderstorm activity

46. A blocking anticyclone in the northern hemisphere is

- a) Quasi stationary/situated between 50°N and 70°N/a cold anticyclone
- b) A warm anticyclone/quasi stationary/situated between 50°N and 70°N
- c) A cold anticyclone/steering depressions/situated over Scandinavia
- d) Situated between 50°N and 70°N/a cold anticyclone/steering depressions

47. Given: Magnetic heading 280° VOR radial 090° What bearing should be selected on the omni-bearing selector in order to centralise the VOR deviation needle with a 'TO' indication?

- a) 270°
- b) 090°
- c) 100°
- d) Stop the loop rotation

48. Which speed provides maximum obstacle clearance during climb?

- a) $V_2 + 10 \text{ KT}$
- b) The speed for which the ratio between rate of climb and forward speed is maximum
- c) V_2
- d) The speed for maximum rate of climb

49. The region of the globe where the greatest number of tropical revolving storms occur is

- a) The north-west Pacific, affecting Japan, Taiwan, Korea and the Chinese coastline.
- b) The northern Indian ocean, affecting India, Sri Lanka and Bangladesh.
- c) The south-western Indian ocean, affecting Madagascar, Mauritius and the island of Réunion.
- d) The Caribbean sea, affecting the West Indies, Mexico and the south-east coastline of the US

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50. A locator: 1 - is a low powered beacon 2 - is a high powered beacon 3 - has a range of 10 - 25NM 4 - has a range of 10 - 200NM

- a) 1 and 4
- b) 2 and 3
- c) 1 and 3
- d) With ON selected a reply in the modes A, C and S can be transmitted.

51. At constant fuel flow, if engine compressor air is bled off for engine anti-icing or a similar system, the turbine temperature:

- a) May Rise Or Fall Depending On Which Stage Of The Compressor Is Used For The Bleed And The Rpm Of The Engine At The Moment Of Selection.
- b) Will rise.
- c) Will fall.
- d) Will Be Unchanged.

52. The approximate inclined plane of a warm front is:

- a) 1/150
- b) 1/500
- c) 1/300
- d) 1/50

53. What does the word 'report' mean?

- a) Pass me the following information
- b) Examine a system or procedure
- c) Say again
- d) Repeat all of this message back to me exactly as received

54. Except for airplanes under 5,7 t airworthiness certificate of which is subsequent to 31 march 1998, a flight data recording system must be able to store the recorded data for a minimum of the last:

- a) 30 minutes.
- b) 10 hours.
- c) 60 minutes.
- d) 25 hours.

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55. The take-off distance available is:

- a) The runway length plus half of the clearway
- b) The runway length minus stopway
- c) The total runway length, without clearway even if this one exists
- d) The length of the take-off run available plus the length of the clearway available

56. Given: Distance from departure to destination 1950 NM GS Out 400 kt GS Home 300 kt What is the time of the PET from the departure point?

- a) 223 min
- b) 167 min
- c) 125 min
- d) 29 min

57. Which component of the Electronic Flight Instrument System generates the visual displays on the EADI and EHSI?

- a) Flight Control Computer
- b) Flight Management Computer
- c) Navigation database
- d) 17 NM

58. How does a receiver of the NAVSTAR/GPS satellite navigation system determine the elevation and azimuth data of a satellite relative to the location of the antenna?

- a) The data is stored in the receiver together with the Pseudo Random Noise (PRN) code
- b) It calculates it by using Almanac data transmitted by the satellites
- c) The data is determined by the satellite and transmitted together with the navigation message
- d) 6

59. The polar Stereographic projection is:

- a) A cylinder projection.
- b) A conical projection.
- c) A plane projection.
- d) A variable cone projection.

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60. 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

61. The maximum quantity of fuel that can be loaded into an aircraft's tanks is given as 3800 US Gallons. If the fuel density (specific gravity) is given as 0.79 the mass of fuel which may be loaded is:

- a) 14383 kg
- b) 11364 kg
- c) 13647 kg
- d) 18206 kg

62. The responsibility to provide flight operations personnel with the relevant parts of the operations manual and to ensure the issue of the amendments rests with:

- a) Owner of the aircraft.
- b) Aircraft producer.
- c) The national authority.
- d) Aircraft operator.

63. The operator of an aircraft equipped with 50 seats uses standard masses for passengers and baggage. During the preparation of a scheduled flight a group of passengers present themselves at the check-in desk, it is apparent that even the lightest of these exceeds the value of the declared standard mass.

- a) The operator may use the standard masses for the load and balance calculation without correction
- b) The operator may use the standard masses for the balance but must correct these for the load calculation
- c) The operator should use the individual masses of the passengers or alter the standard mass
- d) The operator is obliged to use the actual masses of each passenger

64. Which of these statements about a gust lock system are correct or incorrect? 1) A gust lock can be used in flight to reduce the effects of turbulence. 2) Reversible flight controls should have a gust lock.

- a) 1) Is Incorrect, 2) Is Incorrect.
- b) 1) Is Correct, 2) Is Correct.
- c) 1) Is Correct, 2) Is Incorrect.
- d) 1) is incorrect, 2) is correct.

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65. Given: True course (TC) 017°, W/V 340°/30 kt, True air speed (TAS) 420 kt Find: Wind correction angle (WCA) and ground speed (GS)

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

66. The criterion which shall be used to determine that a specific level is occupied by an aircraft shall be, (except that appropriate ATS authorities may specify a smaller criterion):

- a) +/- 200 ft.
- b) +/- 150 ft.
- c) +/- 300 ft.
- d) +/- 250 ft.

67. A copilot has passed an upgrading course to become a captain. Which psychological consequence is most likely?

- a) His/her self -concept is going to be stabilized because of the higher status as a captain.
- b) The increased command authority leads to a higher professionalism.
- c) His/her self-concept is going to change because of new roles and tasks which have to be incorporated.
- d) An upgrading does not have any of the mentioned psychological consequences.

68. 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.

69. 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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70. When completing an ATC flight plan, an elapsed time (Item 1 6) of 1 hour 55 minutes should be entered as:

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

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Schema Risposte

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

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