

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. The message addressed to an Area Control Centre 'request radar vectors to circumnavigate adverse weather' is:

- a) A meteorological message.
- b) An urgency message.
- c) A flight safety message.
- d) A message relating to direction finding.

02. Parallax error is:

- a) Due to temperature effect
- b) A reading error
- c) Due to the effect of aircraft accelerations
- d) Due to pressure effect

03. When taking-off behind a heavy aircraft, with wind coming from the left side, you adopt a path, whenever possible:

- a) Distinct from the preceding airplane, by remaining at the right of and under its path.
- b) Distinct from the preceding airplane, by remaining at the left of and above its path.
- c) Distinct from the preceding airplane, by remaining behind it and under its path.
- d) Identical to the one of the preceding airplane.

04. The OBS is set on 048°, TO appears in the window. The needle is close to full right deflection. The VOR radial is approximately:

- a) 218°
- b) 058°
- c) 238°
- d) 038°

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05. What is the Q-code for 'magnetic bearing from the station'?

- a) QTE
- b) QDM
- c) QDR
- d) QFE

06. How many satellites form the nominal NAVSTAR GPS constellation?

- a) 12
- b) 6
- c) 24
- d) 6

07. An aircraft is flying on a heading of 270°(M). The VOR OBS is also set to 270° with the full left deflection and FROM flag displayed. In which sector is the aircraft from the VOR ground station?

- a) NW
- b) NE
- c) SE
- d) 156 NM

08. Subject to conditions specified by the appropriate ATS authority, a radar controller may request radar-controlled aircraft to adjust their speed when established on intermediate and final approach. This speed adjustment should not be more than:

- a) +/- 10 kt.
- b) +/- 20 kt.
- c) +/- 8 kt.
- d) +/- 15 kt.

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09. The determination of the maximum mass on brake release, of a certified turbojet aeroplane with 5°, 15° and 25° flap angles on take-off, leads to the following values: Flap angle: 5° 15° 25° Runway limitation (kg): 66000 69500 71500 2nd segment climb limitation: 72200 69000 61800 Wind correction: Headwind: +120 kg / KT Tailwind: -360 kg / KT Given that the tailwind component is equal to 5 KT, the maximum mass on brake release and corresponding flap angle will be:

- a) 69000 kg / 15 deg
- b) 67700 kg / 15 deg
- c) 69700 kg / 25 deg
- d) 72200 kg / 5 deg

10. A class A fire is a fire of:

- a) Liquid or liquefiable solid
- b) Electrical origin
- c) Solid material, generally of organic nature
- d) Metal or gas or chemical (special fires)

11. The constant of the cone, on a Lambert chart where the convergence angle between longitudes 010°E and 030°W is 30°, is:

- a) 0.50
- b) 0.40
- c) 0.64
- d) 0.75

12. The procedure to be followed in the event of decompression when flying above 10,000 ft must:

- a) Allow for the rapid supply of oxygen in order to prevent hypoxia
- b) Make it possible to eliminate the risk of fogging due to the sudden pressure changes
- c) Make it possible to prevent hyperventilation owing to the inhalation of 100 % oxygen
- d) Allow for a rapid descent independent from sufficient supply of oxygen in order to prevent disorders due to hypoxia

13. The trailing edge flaps when extended:

- a) Degrade the best angle of glide
- b) Significantly lower the drag
- c) Significantly increase the angle of attack for maximum lift
- d) Increase the zero lift angle of attack

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14. In case of a hi-jack, the squawk code is:

- a) A 7600
- b) A 7500
- c) A 2000
- d) A 7700

15. he VMC minima for an airspace classified an:

- a) Mandatory instruction signs red background with black inscriptions.
- b) Information signs yellow or black background with black or yellow inscriptions.
- c) Mandatory instruction signs information signs black background with red inscriptions.
- d) Information signs orange background with black inscriptions.

16. 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

17. A 'fan' stage of a ducted-fan turbine engine is driven by:

- a) The High Pressure Compressor Through Reduction Gearing.
- b) The low pressure turbine.
- c) Airflow drawn across it by the high pressure compressor.
- d) The High Pressure Turbine.

18. An aircraft takes-off from an airport 2 hours before sunset. The pilot flies a track of 090°(T), W/V 130°/ 20 kt, TAS 100 kt. In order to return to the point of departure before sunset, the furthest distance which may be travelled is:

- a) 97 NM
- b) 84 NM
- c) 105 NM
- d) 115 NM

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19. 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

20. 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

21. A read back is not needed for the following message:

- a) Clearance to backtrack on RWY in use
- b) Wind velocity
- c) Altimeter setting
- d) Clearance to take off

22. An aircraft has two certified landing flaps positions, 25° and 35°. If a pilot chooses 25° instead of 35°, the aircraft will have:

- a) A reduced landing distance and better go-around performance
- b) An increased landing distance and better go-around performance
- c) A reduced landing distance and degraded go-around performance
- d) An increased landing distance and degraded go-around performance

23. Which part of the inner ear is responsible for the perception of sound?

- a) The semicircular canals
- b) The sacculus and utriculus
- c) The cochlea
- d) The Eustachian tube

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24. The equatorial easterly jet is a jet stream that occurs:

- a) Only in the winter of the northern hemisphere at approximately 30000'
- b) Only in the summer of the northern hemisphere at approximately 45000'
- c) During the whole year in the northern hemisphere
- d) During the whole year in the southern hemisphere

25. 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

26. What is the radial and DME distance from CON VOR/DME (N5354.8 W00849. 1) to position N5330 W00930?

- a) On East - West tracks in polar areas.
- b) On high latitude tracks directly East - West.
- c) On tracks directly North - South and on East - West tracks along the equator.
- d) On East - West tracks in the northern hemisphere North of the magnetic equator.

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

- a) 150 m
- b) 75 m
- c) 200 m
- d) 250 m

28. 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

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29. 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

30. Given: True HDG = 307°, TAS = 230 kt, Track (T) = 313°, GS = 210 kt. Calculate the W/V?

- a) 255/25kt
- b) 257/35kt
- c) 265/30kt
- d) 260/30kt

31. The maximum intensity floor loading for an aeroplane is given in the Flight Manual as 650 kg per square metre. What is the maximum mass of a package which can be safely supported on a pallet with dimensions of 80 cm by 80 cm?

- a) 416.0 kg
- b) 101.6 kg
- c) 41.6 kg
- d) 1015.6 kg

32. Given: Distance 'A' to 'B' 3623 NM Groundspeed 'out' 370 kt Groundspeed 'back' 300 kt The time from 'A' to the Point of Equal Time (PET) between 'A' and 'B' is:

- a) 263 MIN
- b) 238 MIN
- c) 323 MIN
- d) 288 MIN

33. A "Bourdon tube" is used in:

- a) Smoke detectors.
- b) Vibration detectors.
- c) Turbine temperature probes.
- d) Pressure sensors.

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34. When may the name of the location or the call sign suffix in the call sign of an aeronautical station be omitted ?

- a) Only after the aeronautical station has used the abbreviated call sign
- b) Never
- c) In dense traffic during rush hours
- d) When satisfactory communication has been established and provided it will not be confusing to do so

35. 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

36. Which of the following statements is (are) correct with regard to computer flight plans¹. The computer takes account of bad weather on the route and adds extra fuel.² The computer calculates alternate fuel sufficient for a missed approach, climb, cruise, descent and approach and landing at the destination alternate.

- a) Statement 2 only
- b) Neither statement
- c) Statement 1 only
- d) Both statements

37. What should a pilot do to optimise his/her night vision (scotopic vision)?

- a) Wait at least 60 minutes to night-adapt before he takes off
- b) Avoid food containing high amounts of vitamin A
- c) Select meals with high contents of vitamin B and C
- d) Not smoke before start and during flight and avoid flash-blindness

38. What characterizes a stationary front ?

- a) The surface wind usually has its direction parallel to the front
- b) The weather conditions that it originates is a combination between those of an intense cold front and those of a warm and very active front
- c) The warm air moves at approximately half the speed of the cold air
- d) The surface wind usually has its direction perpendicular to the front

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39. 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

40. Which of the following statements is true with regard to a mature thunderstorm:

- a) The cloud top assumes anvil shaped.
- b) Both up-currents and down-currents appear concurrently.
- c) The top of the cloud is negatively charged and the base is positively charged.
- d) Water droplets, hail and snow are all present.

41. 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

42. InterceptionIf any instructions received by radio from any sources conflict with those given by the intercepting aircraft by visual signals, the intercepted aircraft shall:

- a) Ignore the signals of the intercepting aircraft and request instructions from the appropriate ATS unit.
- b) Follow the instructions of the intercepting aircraft and request immediate clarification.
- c) Select transponder mode A, squawk 7600, fly holding patterns until having received instructions from the appropriate ATS unit.
- d) Ignore the signals of the intercepting aircraft and continue in accordance with the last clearance received and confirmed by the appropriate ATS unit.

43. Permanent magnetism in aircraft arises chiefly from:

- a) Exposure to the earth's magnetic field during normal operation
- b) Hammering, and the effect of the earth's magnetic field, whilst under construction
- c) The effect of internal wiring and exposure to electrical storms
- d) The combined effect of aircraft electrical equipment and the earth's magnetic field

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44. Which of the following statements concerning trade winds is correct?

- a) They reach up to the tropopause and are more pronounced over the continents
- b) They reach up to the tropopause and are more pronounced over the oceans
- c) They occur only in the lower part of the troposphere and more pronounced over the oceans
- d) They occur only in the lower part of the troposphere and are more pronounced over the continents

45. 3D RNAV fixing gives you:

- a) Horizontal and vertical profile guidance
- b) 2D RNAV plus speed control
- c) 2D RNAV plus time guidance
- d) Horizontal, vertical profile and time guidance

46. With EAS and pressure altitude (Z_p), we can deduce:

- a) TAS.
- b) CAS and TAS.
- c) CAS.
- d) IAS.

47. An autopilot system:

- a) Must provide automatic take off functions.
- b) Must provide at least aircraft guidance functions.
- c) May provide automatic take off functions.
- d) Must provide at least aircraft stabilisation functions.

48. 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 $12^\circ W$?

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

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49. The maximum quantity of fuel that can be loaded into an aircraft's tanks is given as 2200 l. If the fuel density (specific gravity) is given as 0.79 the mass of fuel which may be loaded is:

- a) 1738 kg
- b) 1798 kg
- c) 2098 kg
- d) 2785 kg

50. The limits of the yellow scale of an airspeed indicator are:

- a) VLO for the lower limit and VNE for the upper limit
- b) VNO for the lower limit and VNE for the upper limit
- c) VFE for the lower limit and VNE for the upper limit
- d) VLE for the lower limit and VNE for the upper limit

51. Which of these phrases is used to inform the control tower that a pilot perform a missed approach:

- a) Overshooting
- b) Going around
- c) Pulling up
- d) Will make another approach

52. Frontal fog is most likely to occur

- a) In rear of a warm front
- b) In advance of a warm front
- c) In winter in the early morning
- d) In summer in the early morning

53. In large modern aircraft, in the air conditioning system, reduction of air temperature and pressure is achieved by:

- a) An expansion turbine.
- b) An evaporator.
- c) A condenser.
- d) A Compressor.

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54. You receive an IFR enroute clearance stating: Clearance expires at 0920. What does it mean?

- a) The take off clearance is expected at 0920
- b) Do not take off before 0920
- c) After 0920 return to the ramp and file a new flight plan
- d) If not airborne until 0920, a new clearance has to be issued

55. On a TCAS2 (Traffic Collision Avoidance System), a corrective 'resolution advisory' (RA) is a 'resolution advisory':

- a) Asking the pilot to modify effectively the vertical speed of his aircraft.
- b) Asking the pilot to modify the speed of his aircraft.
- c) Asking the pilot to modify the heading of his aircraft.
- d) Which does not require any action from the pilot but on the contrary asks him not to modify his current vertical speed rate.

56. The manoeuvre stability of a large jet transport aeroplane is 280 N / g. What stick force is required, if the aeroplane is pulled to the limit manoeuvring load factor from a trimmed horizontal straight and steady flight? (cruise configuration)

- a) 770 N
- b) 420 N
- c) 1050 N
- d) 630 N

57. An air data computer
1. supplies the ground speed and the drift (angle)
2. determines the total temperature and the true altitude
3. receives the static pressure and the total pressure
4. supplies the true airspeed to the inertial unit
5. determines the Mach number, the outside (static) air temperature
The combination regrouping all the correct statements is:

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

58. The frequency of an SSR ground transmission is:

- a) 1050 +/- 0.5 MHz
- b) 1030 +/- 0.2 MHz
- c) 1120 +/- 0.6 MHz
- d) 1090 +/- 0.3 MHz

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59. In An Air Data Computer (ADC), aeroplane altitude is calculated from:

- a) Measurement of outside air temperature (OAT)
- b) The difference between absolute and dynamic pressure at the fuselage
- c) Measurement of elapsed time for a radio signal transmitted to the ground surface and back
- d) Measurement of absolute barometric pressure from a static source on the fuselage

60. During the approach, the radio altimeter indicates 950 ft. This is:

- a) The relative height of the aircraft above airport level (AAL).
- b) The height of the pilot eyes with regard to the ground.
- c) The relative height of the aircraft with regard to the runway.
- d) The height of the lowest wheels with regard to the ground.

61. According to ICAO 8168, what is regarded as the maximum safe deviation below the glide path during ILS approach?

- a) Three quarter scale deflection.
- b) One quarter scale deflection.
- c) Full scale deflection.
- d) Half scale deflection.

62. The type of gate which requires all conditions with logic 1 for engagement is:

- a) Or.
- b) NAN
- c) A
- d) C. And.nor.

63. An urgency message shall be preceded by the radiotelephony urgency signal:

- a) URGENCY, spoken three times
- b) PAN PAN, spoken three times
- c) ALERFA, spoken three times
- d) MAYDAY, spoken three times

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64. The speed for maximum lift/drag ratio will result in:

- a) The maximum endurance for a propeller driven aeroplane
- b) The maximum range for a jet aeroplane
- c) The maximum angle of climb for a propeller driven aeroplane
- d) The maximum range for a propeller driven aeroplane

65. 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

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

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

67. RADAR informs aircraft X-BC: 'X-BC identified'. What does this mean:

- a) X-BC should perform an identification turn
- b) X-BC is not visible on the radar screen
- c) X-BC should operate the IDENT-button
- d) Radar identification has been achieved

68. After engine failure the aeroplane is unable to maintain its cruising altitude. What is the procedure which should be followed?

- a) ETOPS.
- b) Emergency Descent Procedure.
- c) Long Range Cruise Descent.
- d) Drift Down Procedure.

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69. Continuous loop fire detector systems operate on the principle that an increase in temperature produces:

- a) An Increase In Resistance
- b) A decrease in resistance
- c) A decrease in pressure
- d) A Decrease In The Reference Current

70. The primary duty provided by a radar unit is:

- a) To provide radar separation.
- b) To assist aircraft where navigation appears unsatisfactory.
- c) To assist aircraft due to failure of airborne equipment.
- d) To assist aircraft on the location storms.

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Schema Risposte

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

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