

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. Given: Distance from departure to destination: 330 NM Endurance: 5 h True Track: 170 W/V: 140/25 TAS: 125 kt
What is the distance of the PSR from the departure point?**

- a) 194 NM
- b) 150 NM
- c) 303 NM
- d) 30 NM

02. Refer to JAR Student Pilot Route Manual, Paris, Charles-de-Gaulle (Plate 20- 2): The route distance from CHIEVRES (CIV) to BOURSONNE (BSN) is:

- a) 83 NM
- b) 96 NM
- c) 73 NM
- d) 88 NM[see Annex]

03. During a night flight, an observer located in the cockpit, seeing an aircraft coming from front left on approximate opposite parallel track, will first see the:

- a) White steady light
- b) Green steady light
- c) Green and white flashing light
- d) Red steady light

04. What does the phrase 'break break' mean?

- a) It indicates the separation between portions of a message transmitted to an aircraft station
- b) It indicates the separation between messages transmitted to different aircraft in a very busy environment
- c) My transmission is ended and I expect a response from you
- d) The exchange of transmissions is ended and no response is expected

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05. An aircraft, at FL 410 is passing overhead a DME station at mean sea level. The DME indicates approximately:

- a) 6.8 NM
- b) 6.1 km
- c) 6.1 NM
- d) It is of no use to civil aviation

06. The angle of attack (aerodynamic angle of incidence) of an aerofoil is the angle between the:

- a) Chord line and the relative undisturbed airflow
- b) Bottom surface and the chord line
- c) Bottom surface and the relative airflow
- d) Bottom surface and the horizontal

07. The ground - air visual signal code for use by survivors on ground in order to indicate "REQUIRE ASSISTANCE" is (search and rescue signals):

- a) N
- b) Y
- c) V
- d) X

08. When an aircraft is no longer in distress, it shall transmit a message cancelling the distress condition. Which words shall this message include?

- a) ... MAYDAY, resuming normal operations
- b) ... MAYDAY cancelled
- c) ... cancel distress
- d) ... distress condition terminated

09. The urgency message to be sent by an aircraft reporting an urgency condition shall contain at least the following elements/details:

- a) Aircraft call sign, destination airport, ETA at destination, route of flight
- b) Aircraft call sign, nature of the urgency condition, pilot's intention, present position, level and heading
- c) Aircraft identification, aerodrome of departure, level and heading
- d) Name of the station addressed, present position, assistance required

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10. Which of the following phenomena is least likely to lead to the formation of a Cumulonimbus with thunderstorm?

- a) Ground radiation
- b) Orographic lift
- c) Convergence
- d) Convection

11. Which word shall be used to ask a station whether you have correctly received a message, clearance, instruction, etc?

- a) Correct
- b) Acknowledge
- c) Confirm
- d) Verify

12. 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

13. The chart that is generally used for navigation in polar areas is based on a:

- a) Direct Mercator projection
- b) Gnomonic projection
- c) Stereographic projection
- d) Lambert conformal projection

14. The airspeed indicator of a twin-engine aircraft comprises different sectors and colour marks. The blue line corresponds to the:

- a) Speed not to be exceeded, or VNE
- b) Optimum climbing speed with one engine inoperative, or Vy
- c) Maximum speed in operations, or VMO
- d) Minimum control speed, or VMC

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15. To measure the mass and CG-position of an aircraft, it should be weighed with a minimum of:

- a) 3 points of support
- b) 4 point of support
- c) 1 point of support
- d) 2 points of support

16. Which statement about reduced thrust is correct?

- a) Reduced thrust is primarily a noise abatement procedure
- b) Reduced thrust can be used when the actual take-off mass is less than the field length limited take-off mass
- c) In case of reduced thrust V1 should be decreased
- d) Reduced thrust is used in order to save fuel

17. Action plans (SOP's) in a cockpit must:

- a) Be tailored to the individual pilot's needs in order to facilitate the normal operation of the aircraft
- b) Be shared by the members of the crew and updated at each modification in order to maintain maximum synergy
- c) Only follow the manufacturers proposals and not reflect individual operators cockpit philosophies
- d) Only be tailored to the type of aircraft, regardless of current MCC procedures

18. Complete line 6 of the 'FLIGHT NAVIGATION LOG', positions 'L' to 'M'. What is the HDG°(M) and ETA?

- a) HDG 075° - ETA 1452 UTC
- b) HDG 064° - ETA 1449 UTC
- c) HDG 070° - ETA 1459 UTC
- d) HDG 075° - ETA 1502 UTC

19. Given: TAS = 480 kt, HDG (°T) = 040°, W/V = 090/60kt. Calculate the Track (°T) and GS?

- a) 028 - 415 kt
- b) 034 - 445 kt
- c) 036 - 435 kt
- d) 032 - 425 kt

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20. The aerodynamic drag of a body, placed in a certain airstream depends amongst others on:

- a) The airstream velocity
- b) The CG location of the body
- c) The weight of the body
- d) The specific mass of the body

21. 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

22. InterceptionAn aircraft equipped with SSR transponder which is intercepted by another aircraft shall immediately, unless otherwise instructed by the appropriate air traffic service unit, select Mode A

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

23. The highest risk of bird strikes occurs:

- a) Under 500 m
- b) Between 500 and 1 500 m
- c) Between 500 and 1 000 m
- d) Above 1 000 m

24. The frequency of the current provided by an alternator depends on...

- a) Its rotation speed
- b) Its phase balance
- c) Its load
- d) The Strength Of The Excitation Current

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25. Alert phase is defined as follows:

- a) A situation related to an aircraft which reports that the fuel on board is exhausted.
- b) A situation where an apprehension exists as to the safety of an aircraft and its occupants.
- c) A situation related to an aircraft and its occupants are considered to be in a state of emergency.
- d) An emergency event in which an aircraft and its occupants are considered to be threatened by a danger.

26. The transmitter of RPM indicator may consist of: 1- a magnetic sensor supplying an induced AC voltage 2- a DC generator supplying a DC voltage 3- a single-phase AC generator supplying an AC voltage 4- a three-phase AC generator supplying a three-phase voltage The combination regrouping all the correct statements is:

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

27. . The moment for an item is

- a) The mass of the item divided by it's distance from the datum
- b) The mass of the item multiplied by it's distance from the datum
- c) The square of the distance the item is from the datum divided by it's mass
- d) The distance the item is from the datum divided by it's mass

28. Flaperons are controls which combine the function of:

- a) Ailerons and elevator.
- b) Flaps and speed brakes.
- c) Ailerons and flaps.
- d) Flaps and elevator.

29. What pressure is defined as QFE?

- a) The pressure of the altimeter
- b) The pressure reduced to sea level using actual temperatures
- c) The pressure at field elevation
- d) The pressure reduced to sea level using ISA temperatures

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30. A class B fire is a fire of:

- a) Solid material usually of organic nature
- b) Electrical source fire
- c) Liquid or liquefiable solid
- d) Special fire: metal, gas, chemical product

31. While inertial platform system is operating on board an aircraft, it is necessary to use a device with the following characteristics, in order to keep the vertical line with a pendulous system:

- a) Without damping and a period of about 84 minutes
- b) Without damping and a period of about 84 seconds
- c) With damping and a period of about 84 minutes.
- d) With damping and a period of 84 seconds

32. Raising the sensory threshold of a sensory organ means:

- a) A greater sensitivity
- b) A lesser sensitivity
- c) A lesser selectivity
- d) A greater selectivity

33. Which of the following processes will increase the stability of an air mass?

- a) Cooling by the underlying surface.
- b) Advection of colder air aloft.
- c) Warming of the air mass from below.
- d) Addition of water vapour in the lower layer.

34. In a twin engine jet aeroplane (engines mounted below the low wings) the thrust is suddenly increased. Which elevator deflection will be required to maintain the pitching moment zero ?

- a) Up.
- b) Down.
- c) It depends on the position of the centre of gravity.
- d) No elevator movement will required because the thrust line of the engines remains unchanged.

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35. For a non pressurised aircraft, all occupants of flight deck seats on flight deck duty shall be supplied with supplemental oxygen during:

- a) The entire flight time at pressure altitudes above 13 000 ft and for any period exceeding 30 minutes at pressure altitudes above 10 000 ft but not exceeding 13 000 ft
- b) The entire flight time at pressure altitudes above 13 500 ft
- c) The entire flight time after 30 minutes at pressure altitudes greater than 10 000 ft but not exceeding 13 000 ft
- d) The entire flight time at pressure altitudes above 10 000 ft

36. 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.

37. The area in front of a threshold descends towards the threshold. Possible danger is:

- a) Approach is lower than normal and may result in a short landing
- b) To drop far below the glide path
- c) To misjudge the length of the runway
- d) Approach is higher than normal and may result in a long landing

38. Mass for individual passengers (to be carried on an aircraft) may be determined from a verbal statement by or on behalf of the passengers if the number of

- a) Passengers carried is less than 6.
- b) Passenger seats available is less than 20.
- c) Passenger seats available is less than 10.
- d) Passengers carried is less than 20.

39. Approach procedures, Arrival and Approach Segments - Intermediate approach segment What is the minimum obstacle clearance requirement at the end of the primary area of the intermediate approach segment in an instrument approach procedure?

- a) 450m (1476 ft) reducing to 150 m (492 ft).
- b) 150m (492 ft) reducing to 0 m.
- c) 300 m (984 ft) reducing to 0 m.
- d) 300m (984 ft) reducing to 150 m (492 ft).

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40. Altimeter setting procedures - Transition Layer When flying through the transition layer the vertical position of the aircraft should be expressed as:

- a) Altitude during climb
- b) Altitude during descent
- c) Either altitude or flight level during climb
- d) Flight level during descent

41. At a constant Mach number the thrust and the fuel flow of a jet engine

- a) Are independent of outside air temperature (OAT).
- b) Increase with increasing altitude.
- c) Increase in proportion to the ambient pressure at constant temperature.
- d) Decrease in proportion to the ambient pressure at constant temperature.

42. The 'slipstream effect' of a propeller is most prominent at:

- a) High Airspeeds With Low Power Setting.
- b) High airspeeds with high power setting.
- c) Low airspeeds with high power setting.
- d) Low Airspeeds With Low Power Setting.

43. Immediately after starting engine(s) with no other electrical services switched on, an ammeter is showing a high charge rate to the battery:

- a) Indicates A Faulty Reverse Current Relay.
- b) Would be normal and is only cause for concern if the high charge rate persists.
- c) Indicates a generator failure, thus requiring the engine to be shut down immediately.
- d) Indicates A Battery Failure Since There Should Be No Immediate Charging.

44. 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

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45. The message to an aeronautical ground station 'please call a taxi-cab for us. We will arrive at 1045' is:

- a) A flight regularity message.
- b) A flight safety messages.
- c) An unauthorized message.
- d) An urgency message.

46. The radar controller suspects that you are experiencing unlawful interference. What should he do to confirm this with an auto decoder unit? (with no mode A interpretation?)

- a) Switch from 7500 to 7700.
- b) Switch from 7000 to 7500.
- c) Switch from 7600 to 7700.
- d) Switch from 7700 to STBY to test 7500.

47. What does the term 'aeronautical station' mean?

- a) A station in the aeronautical mobile service located on land or, in certain instances, on board of a ship or on a platform at sea
- b) An airborne station forming part of the aeronautical fixed telecommunication network (AFTN)
- c) A station in the aeronautical telecommunication service located on land or on board of an aircraft to exchange radiotelephony communications
- d) Any station established to exchange radiotelephony communications

48. Over-tensioned cables in a flight control system could result in:

- a) Insufficient Friction In The System.
- b) No Appreciable Difference.
- c) Restricted Movement Of Control Surfaces.
- d) Excessive friction in the system.

49. The difference between IAS and TAS will:

- a) Increase with decreasing temperature
- b) Increase with increasing air density
- c) Decrease with decreasing altitude
- d) Decrease with increasing speed

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50. In a fuel system, the oil to fuel heat exchanger allows:

- a) Jet engine oil cooling through thermal exchange with fuel flowing from tanks.
- b) Temporary (on as needed basis) fuel heating by the engine oil to prevent icing in fuel filter.
- c) Fuel cooling so as to prevent vapour creation likely to unprime the nozzles.
- d) Fuel Heating As Required Whenever Fuel Filter Clogging Is Detected.

51. A tubeless tyre is a tyre 1. which requires solid or branched wheels 2. whose valve can be sheared in sudden accelerations 3. whose mounting rim must be flawless 4. which requires no rim protection between rim flange and tire removing device 5. which does not burst in the event of a tire puncture 6. which eliminates internal friction between the tube and the tire The combination regrouping all the correct statements is:

- a) 1, 5, 6.
- b) 2, 3, 2006.
- c) 1, 2, 2005.
- d) 3, 4, 2005.

52. Flying immediately following a dive with SCUBA diving equipment to a depth greater than 10 metres is not advisable because:

- a) Has no influence on altitude flights
- b) Prevents any dangers caused by DCS (decompression sickness) when climbing to altitudes not exceeding 30 000 FT
- c) Will always lead to hypoxia
- d) Can cause decompression sickness even when flying at pressure altitudes below 18 000 FT

53. For aircraft call sign "Easy G-ABCD" the correct abbreviation is:

- a) Golf Charlie Delta
- b) Easy Charlie Delta
- c) Easy Delta
- d) Easy Golf Charlie Delta

54. Approach Procedures - Missed Approach - Phases A complete missed approach procedure consists of the following phases?

- a) Arrival, intermediate and final.
- b) Arrival, initial, intermediate and final.
- c) Initial and final.
- d) Initial, intermediate and final.

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55. The assessment of risk in a particular situation will be based on

- a) Subjective perception and evaluation of situational factors
- b) Situational factors only
- c) The emergency checklist only
- d) External factors only

56. If obliged to jettison part of the fuel in flight, it would be better to do so:

- a) Under FL50.
- b) In a straight line and at a relatively high flight level.
- c) During final phase of approach.
- d) In a holding stack, after control clearance.

57. Given: W/V (T) 230/20 KT, Var. 6E, TAS 80 KT What relative bearing from an NDB should be maintained in order to achieve an outbound course of 257°(M) from overhead the beacon?

- a) 172
- b) 008
- c) 188
- d) 352

58. Considering a rate of climb diagram (ROC versus TAS) for an aeroplane. Which of the diagrams shows the correct curves for 'flaps down' compared to 'clean' configuration?

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

59. Which load factor determines VA?

- a) Manoeuvring limit load factor.
- b) Manoeuvring flap limit load factor.
- c) Gust load factor at 66 ft/sec gust.
- d) Manoeuvring ultimate load factor.

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60. 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.

61. Which is the frequency band containing frequencies of the Aeronautical Mobile Service?

- a) 108.000 - 117.975 MHz
- b) 1810 - 2850 KHz
- c) 118.000 - 136.975 MHz
- d) 11650 - 13200 KHz

62. What does the phrase 'Verify' mean:

- a) Read back VDF bearing
- b) Repeat your last transmission
- c) Consider that transmission as not sent
- d) Check and confirm with originator

63. On a swept wing aeroplane at low airspeed, the 'pitch up' phenomenon:

- a) Is caused by wingtip stall
- b) Is caused by boundary layer fences mounted on the wings
- c) Is caused by extension of trailing edge lift augmentation devices
- d) Never occurs, since a swept wing is a 'remedy' to pitch up

64. Considering TAS for maximum range and maximum endurance, other factors remaining constant:

- a) Both will stay constant regardless of altitude
- b) Both will decrease with increasing altitude
- c) TAS for maximum range will increase with increased altitude while TAS for maximum endurance will decrease with increased altitude
- d) Both will increase with increasing altitude

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65. 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

66. A flight has to be made with a multi engine piston aeroplane (MEP 1 Fig. 3. 3). For the fuel calculations take 5 US gallons for the taxi, and an additional 13 minutes at cruise condition to account for climb and descent. Calculated time overhead to overhead is 2h37min. Power setting is 65%, 2500 RPM. Calculated reserve fuel is 30% of the trip fuel. FL 120. Temperature 1°C. Find the minimum block fuel.

- a) 91 US gallons
- b) 118 US gallons
- c) Find the minimum block fuel. 91 US gallons 118 US gallons 76 US gallons
- d) 86 US gallons

67. Half the mass of the atmosphere is found in the first:

- a) 8 km
- b) 3 km
- c) 11 km
- d) 5 km

68. About ten identical clouds are in the sky, well isolated from one another, dense, with well defined contours, developing vertically in a cauliflower shape. The side of these clouds lit by the sun is bright white. Their base, relatively dark, is essentially horizontal and at FL 30, and their tops at FL 150. These clouds are

- a) Broken Cumulus humilis
- b) Towering Cumulus
- c) Stratocumulus
- d) Altocumulus castellanus

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69. You would use a CO2 fire-extinguisher for: 1. a paper fire 2. a plastic fire 3. a hydrocarbon fire 4. an electrical fire
The combination regrouping all the correct statements is:

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

70. An aircraft whose maximum approved configuration for passenger seats is 200 seats must be equipped with:

- a) 3 hand fire extinguishers in the compartment.
- b) 5 hand fire extinguishers in the passenger compartment.
- c) 4 hand fire extinguishers in the passenger compartment.
- d) 7 Hand Fire Extinguishers In The Passenger Compartment.

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Schema Risposte

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

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