Simulazione di Esame

Meteorology - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!

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NOME ALLIEVO:	DATA & ORA:

01. 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

02. A commercial aeroplane is scheduled to be operated at FL 390 and has the following characteristics:Maximum approved passenger seating configuration = 230 Number of seats on board= 200Scheduled number of passengers on board= 180The minimum number of oxygen dispensing units provided in the aeroplane cabin compartment should be:

a) 220.

b) 180.

c) 200.

d) 230.

03. Given:Magnetic heading 311° Drift angle 10° leftRelative bearing of NDB 270°What is the magnetic bearing of the NDB measured from the aircraft?

a) 211°

b) 208°

c) 180°

d) 221°

04. According to CS 25 the landing reference speed VREF may not be less than:

a) 1.23 VSRO and must be maintained down to 50' height

b) 1.2 VMCA

c) 1.23 VSRO for turbojet powered and 1.3 for turboprop powered aeroplanes

d) VSRO and must be maintained down to 35' height

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05. The normal arterial blood-pressure of a healthy adult at rest is (systolic/diastolic):

a) 120/80 mm Hg
b) 220/180 mm Hg
c) 180/120 mm Hg
d) 80/20 mm Hg

06. Which of the following statements is correct?The blood-pressure which is measured during flight medical checks is the pressure

a) In the artery of the upper arm (representing the pressure at heart level)
b) In the veins of the upper arm
c) In the muscles of the upper arm
d) In all the blood-vessels of the body (representing the pressure in the whole body)

07. If OAT increases when at a constant TAS:

a) Mach number decreases.
b) The difference between surrounding conditions and ISA must be known to deduce the Mach number variation.
c) Mach number remains constant.
d) Mach number increases.

08. On detection of a persistent overvoltage fault on an AC generator connected to the aircraft AC busbars, the on-board protection device opens:

a) The exciter breaker and the generator breaker.
b) The generator breaker.
c) The generator breaker and tie breaker.
d) The Exciter Breaker, The Generator Breaker And Tie Breaker.

09. Concerning the flight warning system (FWS), advisory messages may be:

a) Any colour except amber.
b) Red.
c) Any colour except red, and preferably not amber.
d) Any colour except green.

10. When an aircraft flies into a horizontal tail wind gust the aircraft tends:

a) To climb

b) To descend

c) To climb or descend, depending on the gust strength

d) Not to change its trajectory

11. Refer to the General Student Pilot Route Manual - VFR Chart ED-4:Flying from SAULGAU airport (48°02'N, 009°31'E) to ALTENSTADT airport (47°50'N, 010°53'E). Find magnetic course and the distance.

a) Magnetic course 282°, distance 112 KM

b) Magnetic course 092°, distance 82 NM

c) Magnetic course 091°, distance 54 NM

d) Magnetic course 078°, distance 82 NM

12. Which phrase shall be used if you want to say: "Communication is difficult. Please send every word or group of words twice"?

a) Say again, say again

b) Repeat twice

c) Words twice

d) Message second time

13. Unless otherwise prescribed by the appropriate ATS authority, the radar controller should notify the non-radar controller when an aircraft making a radar approach is approximately:

a) 5 NM.

b) 10 NM.

c) 6 NM.

d) 8 NM.

14. When the weather conditions require an alternate aerodrome to be available on take-off, the latter shall be located, for aircraft with three or more engines, at an equivalent distance not exceeding:

a) 2 hours of flight time at cruising speed

b) 1 hour of flight time at single engine cruising speed

c) 2 hours of flight time at one-engine-inoperative cruising speed

d) 1 hour of flight time at cruising speed

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15. The optimum altitude:

a) Decreases as mass decreases

b) Increases as mass decreases and is the altitude at which the specific range reaches its maximum

c) Is the altitude up to which cabin pressure of 8 000 ft can be maintained

d) Is the altitude at which the specific range reaches its minimum

16. When in flight, a piston engine is stopped and the propeller blade pitch angle is near 90°, the propeller is said to be...

a) Windmilling.

b) Feathered.

c) At zero drag.

d) Transparent.

17. 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.

18. The altimeter of your aircraft indicates 11000 ft with a subscale-setting of 1013,25 mb. QNH is 1023 hPa. OAT is +3°C. The pressure altitude of the aircraft is:

a) 11740 ft.

b) 10260 ft.

c) The pressure altitude of the aircraft is: 11740 ft. 10260 ft. 11000 ft.

d) 670 hPa.

19. Which of the following is a common cause of ground or surface temperature inversion ?

a) Terrestrial radiation on a clear night with no or very light winds.

b) Heating of the air by subsidence

c) The movement of colder air under warm air, or the movement of warm air over cold air.

d) Warm air being lifted rapidly aloft, in the vicinity of mountainous terrain.

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20. If one of the 12 cells of a lead-acid battery is dead, the battery:

a) Has 1/12 Less Voltage, But Can Still Be Used

b) Is unserviceable

c) Has 1/12 less voltage and less capacity, but can still be used

d) Has 1/12 Less Capacity, But Can Still Be Used

21. In accordance with OPS 1, the noise abatement procedures specified by the operator should be:

a) For all aeroplane types, the same for a specific aerodrome.

b) For an aeroplane type, the same for all aerodromes.

c) Different according to aerodromes and aeroplane types.

d) For all aeroplane types, the same for all aerodromes.

22. In VFR public transport on an aircraft for which the flight manual indicates a minimum crew of one pilot, when do the regulations require the presence of a second pilot ?

a) Never.

b) If the flight lasts more than 3 hours.

c) If part or all the flight is done at night.

d) If the aircraft is a twin-engine.

23. The dry adiabatic lapse rate

a) Is greater during the night than during the day

b) Is greater in summer than in winter

c) Has a variable value

d) Has a constant fixed value

24. Holding Procedures - Buffer AreaHow far beyond the boundary of the holding area extends the buffer area?

a) 5 NM.

b) 3 km.

c) 5 km.

d) 3 NM.

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25. The letter 'L' is written in the wake turbulence box of a flight plan form when the maximum certified take-off weight of an aircraft is less than or equal to:

a) 14 000 kg.

b) 7 000 kg.

c) 5 700 kg for aeroplanes and 2 700 kg for helicopters.

d) 20 000 kg.

26. An aircraft departs from position A (04°10' S 178°22'W) and flies northward following the meridian for 2950 NM. It then flies westward along the parallel of latitude for 382 NM to position B.The coordinates of position B are?

a) 45°00'N 169°22W

b) The coordinates of position B are? 45°00'N 169°22W 53°20'N 169°22W

c) 53°20'N 172°38'E

d) 45°00'N 172°38'E

27. An aeroplane is to depart from an airfield at a take-off mass of 302550 kg. Fuel on board at take-off (including contingency and alternate of 19450 kg) is 121450 kg. The Dry Operating Mass is 161450 kg. The useful load will be

a) 19650 kg

b) 141100 kg

c) 39105 kg

d) 121450 kg

28. What does the abbreviation 'SAR' mean?

a) Surveillance airport radar.

b) Standard arrival route.

c) Search and rescue.

d) Secondary altimeter responder.

29. Pilot stress reactions:

a) Are related to an internationally recognized list of stressors where the top-ten items should be avoided by every means

b) Seem to be always the same for most pilots

c) Do not change with the environment or different situations but mainly with the characters themselves

d) Differ from pilot to pilot, depending on how a person manages the particular stressors

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30. Refer to the General Student Pilot Route Manual - VFR Chart ED-4Flying VFR from PEITING (47°48.0'N, 010°55.5'E) to IMMENSTADT (47°33.5'N, 010°13.0'E)determine the magnetic course.

a) 257°

b) 063°

c) 077°

d) 243°

31. In relation to the satellite navigation system NAVSTAR/GPS, the term 'inclination' denotes the angle between the:

a) Horizontal plane at the location of the receiver and the direct line to a satellite

b) Orbital plane and the equatorial plane

c) Horizontal plane at the location of the receiver and the orbital plane of a satellite

d) It varies, depending on the time and observer's location

32. Which one of the following statements applies to the tropopause?

a) It separates the troposphere from the stratosphere

b) It is, by definition, a temperature inversion

c) It indicates a strong temperature lapse rate

d) It is, by definition, an isothermal layer

33. The Mach trim system allows to:

a) Search for the ideal CG location by transferring the fuel into the horizontal stabilizer.

b) Increase the longitudinal static stability of the aircraft by changing the horizontal stabilizer according to the Mach number.

c) Interlock the operation of the stick shaker at the oncoming of the high speed stall.

d) Trim the pitch-up tendency at a high Mach number.

34. 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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35. The speed limitation for both IFR flights and VFR flights inside ATS airspace classified as B, when flying below 3.050 m (10.000 ft) AMLS, is:

a) 250 KT IAS

b) Not applicable

c) 260 KT IAS

d) 250 KT TAS

36. What does the term 'blind transmission' mean?

a) A transmission of information relating to air navigation that is not addressed to a specific station or stations.

b) A transmission from one station to another station in circumstances where two-way communication cannot be established but it is believed that the called station is able to receive the transmission.

c) A transmission where no reply is required from the receiving station.

d) A transmission of messages relating to en-route weather information which may affect the safety of aircraft operations that is not addressed to a specific station or stations.

37. 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

38. Which of the following factors leads to the maximum flight time of a glide?

a) High mass

b) Low mass

c) Tailwind

d) Headwind

39. Any parallel of latitude is a:

a) Rhumb line.

b) Small circle.

c) Meridian of tangency.

d) Great circle.

40. What can a pilot do to avoid 'Flicker vertigo' when flying in the clouds?

a) Dim the cockpit lights to avoid reflections

b) Engage the autopilot until breaking the clouds

c) Switch strobe-lights off

d) Fly straight and level and avoid head movements

41. To minimize the risk of hydroplaning during landing the pilot should:

a) Use maximum reverse thrust, and should start braking below the hydroplaning speed.

b) Use normal landing-, braking- and reverse technique.

c) Make a 'positive' landing and apply maximum reverse thrust and brakes as quickly as possible.

d) Postpone the landing until the risk of hydroplaning no longer exists.

42. The diffuser in a centrifugal compressor is a device in which the:

a) Pressure Rises At A Constant Velocity.

b) Velocity, pressure and temperature rise.

c) Pressure rises and velocity falls.

d) Velocity Rises And Pressure Falls.

43. Which of the following statements is/are correct?1. A person experiencing sleep loss is unlikely to be aware of personal performance degradation2. Performance loss may be present up to 20 minutes after awaking from a short sleep (nap)

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

44. In order to ascertain whether a cloud return on an Aircraft Weather Radar (AWR) is at or above the height of the aircraft, the tilt control should be set to:(Assume a beam width of 5°)

a) 2.5° down

b) 0°

c) 5° up

d) ± 8.0nm for 95% of the flight time.

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45. During the approach, a crew reads on the radio altimeter the value of 650 ft. This is an indication of the true:

a) Height of the lowest wheels with regard to the ground at any time.

b) Altitude of the aircraft.

c) Height of the aircraft with regard to the runway.

d) Height of the aircraft with regard to the ground at any time.

46. What is (are) the damping element(s) in a landing gear shock absorber used on larger aircraft?

a) Oxygen.

b) Nitrogen.

c) Springs.

d) Nitrogen and a viscous liquid.

47. In which of the following distances can the length of a stopway be included?

a) In the one-engine failure case, take-off distance

b) In the accelerate stop distance available

c) In the take-off run available

d) In the all-engine take-off distance

48. While taxiing an aircraft receives the following light signal from the control tower: series of red flashes. This signal means that the aircraft:

a) Must stop.

b) Must vacate the landing area in use.

c) May continue to taxi to the take-off area.

d) Must return to its point of departure.

49. During an arrival procedure under an IFR flight plan in VMC conditions, traffic avoidance is the responsibility of:

a) The approach controller.

b) The radar controller.

c) The pilot in command.

d) The airport controller.

50. The ozone-layer is situated in the

a) Thermosphere

b) Troposphere

c) Ionosphere

d) Stratosphere

51. A barotrauma of the middle ear

a) Is more likely, when the pilot is flying with a respiratory infection and during descent

b) Is to be expected during rapid decompressions, but an emergency descent immediately following the decompression will eliminate the problem

c) Causes severe pain in the sinuses

d) Is only caused by large pressure changes during climb

52. What does the abbreviation 'AFIS' mean?

a) Automatic flight information service.

b) Aeronautical flight information system.

c) Aerodrome flight information service.

d) Aerodrome flashing identification signal.

53. The identification of each prohibited, restricted and danger area shall be composed by:

a) The nationality letters for location indicators assigned to the state or territory, followed the letters P. R and D and figures

b) The letters P (Prohibited), R (Restricted) and D (Dangerous) followed by figures

c) The nationality letters for the location indicators assigned to the state, followed by P, R and D

d) The letters P (Prohibited), R (Restricted) and D (Dangerous) for the area concerned and figures

54. In accordance with JAR OPS 1, the operator shall ensure that:

a) For VFR flights conducted in class B airspace, horizontal distance from clouds is at least 1000m.

b) For VFR flights conducted in class F airspace, vertical distance from clouds is at least 250m.

c) Special VFR flights are not commenced when visibility is less than 3 km.

d) For VFR flights conducted in class E airspace, flight visibility at and above 3050m (10000ft) is at least 5 km (clear of cloud).

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55. During a power change on an engine equipped with a constant speed propeller, a wrong combination of manifold pressure and RPM values results in excessive pressures in the cylinders. This is the case when one simultaneously selects a ...

a) High manifold pressure and low rpm.

b) Low manifold pressure and low RPM.

c) High manifold pressure and high RPM.

d) Low Manifold Pressure And High Rpm.

56. Flight planning chart for an aircraft states, that the time to reach the cruising level at a given gross mass is 36 min and the distance travelled is 157 NM (zero-wind). What will be the distance travelled with an average tailwind component of 60 KT?

a) 128 NM

b) 193 NM

c) 228 NM

d) 157 NM

57. When the air has passed through a normal shock wave the Mach number is

a) Lower than before but still greater than 1.

b) Equal to 1.

c) Less than 1.

d) Higher than before.

58. To indicate a temperature, a thermocouple requires:

a) Direct current

b) Battery power

c) Alternating current

d) No power supply

59. An aeroplane whose maximum approved passenger seating configuration is 201 to 300 seats must be equipped with at least:

a) 3 Hand Fire-extinguishers Conveniently Located In The Passenger Compartment.

b) 5 hand fire-extinguishers conveniently located in the passenger compartment.

c) 4 hand fire-extinguishers conveniently located in the passenger compartment.

d) 6 Hand Fire-extinguishers Conveniently Located In The Passenger Compartment.

60. A line connecting the leading edge and trailing edge midway between the upper and lower surface of an aerofoil.This definition is applicable for:

a) The camber line

b) The upper camber line

c) The mean aerodynamic chord line

d) The chord line

61. The Captain of an aircraft flying at FL100 wishes to obtain weather information at the destination airfield (0') from the airfield's VOR. Assuming ISA conditions, what is the approximate maximum theoretical range at which it can be expected to obtain this information?

a) 12.3 NM

b) 123 km

c) 1230 km

d) 123 NM

62. When an aircraft is rolled to the left, adverse yaw will be reduced by:

a) Frise ailerons producing increased drag on both surfaces.

b) A frise aileron being effective on the left wing.

c) The down-going aileron moving through a greater angle of deflection than the up-going aileron.

d) The leading edge of the down-going aileron protruding into the airflow.

63. A layer in which the temperature increases with height is

a) Absolutely unstable

b) Conditionally unstable

c) Absolutely stable

d) Neutral

64. What is the consequence of a microphone button stuck on transmit (switched 'on')?

a) None

b) Other stations will have to use the 'words twice' technique

c) The frequency can not be used by others

d) Readability will improve for all stations

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65. The purpose of a chip detector in the oil system of an engine/gearbox is to indicate that:

a) The Seals Are Worn.

b) The piston rings are worn.

c) The oil temperature is too high.

d) There are metal particles in the oil.

66. Generally, on modern jet transport aircraft, how can the landing gear be extended if there is a complete hydraulic system failure.

a) Mechanically

b) By hydraulic accumulators

c) Pneumatically

d) Electrically

67. Along the West coast of India the prevailing winds are the

a) SW monsoon in July and a SE monsoon in January

b) NE monsoon in July and a SW monsoon in January

c) SW monsoon in July and a NE monsoon in January

d) SE monsoon in July and a SW monsoon in January

68. When accelerating on an easterly heading in the Northern hemisphere, the compass card of a direct reading magnetic compass will turn:

a) Clockwise giving an apparent turn toward the north

b) Anti-clockwise giving an apparent turn toward the south

c) Anti-clockwise giving an apparent turn toward the north

d) Clockwise giving an apparent turn toward the south

69. In a hydraulic braking system, an accumulator is pre-charged to 1200 psi.An electrically driven hydraulic pump is started and provides a system pressure of 3000 psi.The hydraulic pressure gauge which is connected to the gas section of the accumulator, reads:

a) 3000 psi

b) 1800 psi

c) 4200 psi

d) 1200 Psi

70. Out of the list of possible measures to counteract hyperventilation, the most effective measure is:

a) Avoid strenuous flight manoeuvres

b) Hold breath

c) Speak soothingly and get the person to breathe slowly

d) Breathe into a plastic or paper bag

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Schema Risposte

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

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

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