

Simulazione di Esame

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



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NOME ALLIEVO:

DATA & ORA:

01. The take-off safety speed V_2 for two-engine or three-engine turbo propeller powered aeroplanes may not be less than:

- a) 1.13 V_{sr}
- b) 1.15 V_{sr}
- c) 1.15 V_{s1}
- d) 1.2 V_s

02. On a polar stereographic projection chart showing the South Pole, a straight line joins position A ($70^\circ\text{S } 065^\circ\text{E}$) to position B ($70^\circ\text{S } 025^\circ\text{W}$). The true course on departure from position A is approximately:

- a) 135°
- b) 250°
- c) 315°
- d) 225°

03. At the commencement of final approach, if the controller possesses wind information in the form of components, significant changes in the mean surface wind direction and speed shall be transmitted to aircraft. The mean cross-wind component significant change is:

- a) 5 KT
- b) 8 KT
- c) 10 KT
- d) 3 KT

04. On an aeroplane with 20 or more seats engaged on an inter-continental flight, the 'standard mass' which may be used for passenger baggage is

- a) 14 kg per passenger.
- b) 13 kg per passenger.
- c) 11 kg per passenger.
- d) 15 kg per passenger.

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05. 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

06. In the cockpit of a transport airplane, at least one manual fire-extinguisher must be conveniently located containing:

- a) Powder.
- b) Halon.
- c) Special fluids.
- d) Water.

07. The weather associated with a cold front may vary from a minor change of wind to a serious thunderstorm with low cloud base, bad visibility and strong, gusty winds. The type of weather depends on:

- a) All answers are correct.
- b) The speed and slope of the cold front.
- c) The stability of the warm air.
- d) The amount of humidity in the warm air.

08. Without any external action, the axis of a free gyroscope is fixed with reference to:

- a) The earth.
- b) The apparent vertical.
- c) The aircraft.
- d) Space.

09. . The reference about which centre of gravity moments are taken is the

- a) Datum.
- b) Chord line
- c) Centre of mass
- d) Centre of pressure

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10. Glaze or clear ice is formed when supercooled droplets are:

- a) Small and at a temperature just below freezing.
- b) Small and freeze rapidly.
- c) Large and at a temperature just below freezing.
- d) Of any size at temperatures below -35°

11. The Flight Management Computer (FMC) position is:

- a) The actual position of the aircraft at any point in time
- b) The same as that given on the No. 1 IRS
- c) The computed position based on a number of sources (IRS, Radio, ILS, GPS etc)
- d) Clear air turbulence

12. If the control column is pushed forward, a trim tab on the elevator:

- a) Will move up relative to the elevator.
- b) Will move down relative to the elevator.
- c) Will not move relative to the elevator unless the trim wheel is moved.
- d) Will only move relative to the elevator at high speed.

13. Refer to the Student Pilot Route Manual - E HI 2 An aircraft has to fly on airways from SVEDA ($56^{\circ}10'N$ $012^{\circ}34'E$) to SKARA ($58^{\circ}23'N$ $013^{\circ}15'E$). Which of the following is the correct route?

- a) SVD UH40 PAPER UA9 BAK UB44 SKA
- b) SVD UH40 PAPER UA9 BAK UR156 SKA
- c) UR1 HIL UV30 BTD UH42 SKA
- d) SVD UB45 LAV UR156 SKA

14. Which phrase shall be used if the repetition of an entire message is required:

- a) Say again
- b) Repeat your last transmission
- c) What was your message?
- d) Repeat your message

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15. The human circadian rhythm is based on a cycle of about:

- a) 1.5 hours
- b) 24 hours
- c) 48 hours
- d) 12 hours

16. In a gas turbine engine, compressor blades, which are not rigidly fixed in position when the engine is stationary, take up a rigid position when the engine is running due to:

- a) Oil Pressure.
- b) The resultant of aerodynamic and centrifugal forces.
- c) Blade creep.
- d) Thermal Expansion.

17. An aircraft encountering radio communication failure on an IFR flight in IMC has to commence descent over the designated navigation aid serving the destination aerodrome (no EAT received):

- a) At, or as close to, the ETA resulting from the current flight plan
- b) After 3 minutes, if an expected approach time is not acknowledged
- c) Immediately after reaching in any case
- d) 5 minutes after the last expected approach time acknowledged

18. 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

19. When asked by ATC "ARE YOU ABLE TO MAINTAIN FL80?" the correct reply contains the word:

- a) AFFIRM or NEGATIVE
- b) WILCO
- c) CLEARED
- d) ROGER

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20. From the loading manual for the transport aeroplane, the aft cargo compartment has a maximum total load of:

- a) 9232 kg
- b) 1568 kg
- c) 4187 kg
- d) 3062 kg

21. The reason why pre take-off holding areas are sometimes further from the active runway when ILS Category 2 and 3 landing procedures are in progress than during good weather operations is:

- a) Heavy precipitation may disturb guidance signals
- b) Aircraft manoeuvring near the runway may disturb guidance signals
- c) To increase aircraft separation in very reduced visibility conditions
- d) 156 NM

22. Assume a North polar stereographic chart whose grid is aligned with the Greenwich meridian. An aircraft flies from the geographic North pole for a distance of 480 NM along the 110°E meridian, then follows a grid track of 154° for a distance of 300 NM. Its position is now approximately:

- a) 78°45'N 087°E
- b) 80°00'N 080°E
- c) 70°15'N 080°E
- d) 79°15'N 074°E

23. What mean temperature (°C) is likely on a course of 360° (T) from 40°N to 50°N at 040°E ?

- a) -46
- b) -47
- c) -50
- d) -49

24. The actual 'Take-off Mass' is equivalent to:

- a) Actual Zero Fuel Mass plus the traffic load
- b) Dry Operating Mass plus the take-off fuel
- c) Dry Operating Mass plus take-off fuel and the traffic load
- d) Actual Landing Mass plus the take-off fuel

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25. Maximum Tyre Speed can limit the Lift-off Speed. Which kind of speed can be directly used to determine this limitation?

- a) Groundspeed
- b) EAS
- c) TAS
- d) IAS

26. RADAR instructs aircraft XY-ABC: 'X-BC reset squawk 1015'. What does this mean:

- a) X-BC has been identified by SSR code 1015
- b) X-BC is requested to set new code 1015
- c) X-BC has been identified at 10:15 (UTC)
- d) X-BC is requested to reselect SSR code 1015

27. ATC clears Fastair 345 to descend from FL 100 to FL 80. What is the correct read back by the pilot:

- a) Leaving flight level 100 descending to flight level 80, Fastair 345
- b) Leaving 100 to 80, Fastair 345
- c) Down to flight level 80, Fastair 345
- d) Descending to 80, Fastair 345

28. In the event of a contingency which requires an en-route diversion to an alternate aerodrome across the direction of the prevailing 'NAT' traffic flow and if prior ATC clearance cannot be obtained an aircraft able to maintain its assigned flight level should:

- a) If above FL410, climb or descend 1000', while turning towards the alternate aerodrome
- b) If below FL410, climb or descend 1000', while turning towards the alternate aerodrome
- c) If above FL410, climb 1000' or descend 500', while turning towards the alternate aerodrome
- d) If below FL410, climb 500' or descend 1000', while turning towards the alternate aerodrome

29. Which aeroplane design has the highest probability of a super stall?

- a) A canard wing
- b) Swept wings
- c) A T-tail
- d) A low horizontal tail

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30. Which word or phrase shall be used when giving authorization to proceed under specified conditions?

- a) Approved
- b) Go ahead
- c) I say again: proceed
- d) Cleared

31. Following an act of unlawful interference on board an aircraft, the commander should submit a report to:

- a) Both the local authority and the Authority of the State of the operator
- b) The Authority of the State within which the aircraft is operating at the time of the unlawful interference
- c) The Authority of the State of the operator only
- d) The local authority only

32. The Rome Convention and later amendments deals with:

- a) Damage caused by any aircraft to third parties on the surface
- b) Regulation of transportation of dangerous goods
- c) Offences and certain other acts committed on board aircraft
- d) Damage caused by foreign aircraft to third parties on the surface

33. What is the load in the upper respectively lower girder of a spar of a cantilever wing during straight and level flight?

- a) Torsion In The Lower- And Upper Girder.
- b) Tension in lower- and upper girder.
- c) Compression in the upper girder and tension in the lower girder.
- d) Tension In The Upper Girder And Compression In The Lower Girder.

34. Considering VR, which statement is correct?

- a) VR is the lowest climb speed after engine failure
- b) In case of engine failure below VR the take-off should be aborted
- c) VR is the speed at which rotation should be initiated
- d) VR is the lowest speed for directional control in case of engine failure

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35. While making mass and balance calculation for a particular aircraft, the term 'Basic Empty Mass' applies to the sum of airframe, engine(s), fixed ballast plus

- a) All the consumable fuel and oil, but not including any radio or navigation equipment installed by manufacturer.
- b) All the oil, fuel, and hydraulic fluid but not including crew and traffic load.
- c) All the oil and fuel.
- d) Unusable fuel and full operating fluids.

36. In the building principle of a gyroscope, the best efficiency is obtained through the concentration of the mass:

- a) Close to the axis and with a high rotation speed.
- b) On the periphery and with a low rotation speed.
- c) On the periphery and with a high rotation speed.
- d) Close to the axis and with a low rotation speed.

37. For the same TAS, when pressure altitude decreases below the tropopause:

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

38. In the northern hemisphere, during a take-off run in a westerly direction, a direct reading magnetic compass indicates:

- a) An apparent turn to the north.
- b) An apparent turn to the south.
- c) No apparent turn.
- d) An apparent turn to approximately the heading 255°.

39. The maximum quantity of fuel that can be loaded into an aircraft's tanks is given as 400 US Gallons. If the fuel density (specific gravity) is given as 0.79 the mass of fuel which may be loaded is:

- a) 1437 kg
- b) 1916 kg
- c) 2302 kg
- d) 1196 kg

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40. In order to produce an alternating voltage of 400 Hz, the number of pair of poles required in an AC generator running at 6000 rpm is:

- a) 12
- b) 24
- c) 8
- d) 4

41. . Overloading has the following effects on performance:

- a) Reduced take off and landing distance, increased VNE and increased fuel consumption
- b) Increased take off and landing distance, increased rate of climb and increased fuel consumption
- c) Reduced take off and landing distance, increased VNE and reduced rate of climb
- d) Increased take off and landing distance, reduced rate of climb and increased fuel consumption

42. What type of satellite navigation system NAVSTAR/GPS receiver is most suitable for use on board an aircraft?

- a) Multiplex
- b) Sequential
- c) Any hand held type
- d) Multichannel

43. An aircraft was over 'Q' at 1320 hours flying direct to 'R'. Given:Distance 'Q' to 'R' 3016 NM True airspeed 480 ktMean wind component 'out' -90 kt Mean wind component 'back' +75 ktThe ETA for reaching the Point of Equal Time (PET) between 'Q' and 'R' is:

- a) 195 °/61 kt
- b) 355 °/15 kt
- c) 195 °/63 kt
- d) 190 °/63 kt

44. A pilot engages the control wheel steering (CWS) of a conventional autopilot and carries out a manoeuvre in roll. When the control wheel is released, the autopilot will:

- a) Roll wings level and maintain the heading obtained at that moment.
- b) Restore the flight attitude and the rate of turn selected on the autopilot control display unit.
- c) Maintain the track and the flight attitude obtained at that moment.
- d) Maintain the flight attitude obtained at that moment.

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45. When 'Secondary Radar' is used, an aircraft may be identified by one of the following procedures:

- a) To request pilot to set transponder on position 'OFF'.
- b) To request pilot to set transponder on position 'ON'.
- c) To request pilot to switch from 'ON' to 'STDBY'.
- d) Observation of compliance with an instruction to operate transponder from 'ON' to 'STBY' and back to 'ON'.

46. In order to completely resynchronise with local time after zone crossing, circadian rhythms require

- a) Less time when flying from east to west
- b) About one week per 2.5 hours of time shift
- c) About one day per 2.5 hours of time shift
- d) More time when flying from east to west

47. What does the abbreviation 'H24' mean?

- a) Sunrise to sunset
- b) Continuous day and night service
- c) No specific working hours
- d) Sunset to sunrise

48. When turning right from 330°(C) to 040°(C) in the northern hemisphere, the reading of a direct reading magnetic compass will:

- a) Under-indicate the turn and liquid swirl will increase the effect
- b) Over-indicate the turn and liquid swirl will increase the effect
- c) Under-indicate the turn and liquid swirl will decrease the effect
- d) Over-indicate the turn and liquid swirl will decrease the effect

49. Below the optimum cruise altitude:

- a) The IAS for long range cruise increases continuously with decreasing altitude
- b) The TAS for long range cruise increases continuously with decreasing altitude
- c) The Mach number for long range cruise decreases continuously with decreasing altitude
- d) The Mach number for long range cruise increases continuously with decreasing altitude

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50. The receiver aerial for a NAVSTAR/GPS system should be mounted:

- a) In the vicinity of the receiver to avoid long transmission lines
- b) Inside the tail fin to minimise the influence of reflections from the wing and fuselage
- c) Under the fuselage in order to receive correction data transmitted by D-GPS stations
- d) Only the 1575 MHz carrier wave and one code

51. The speed V2 is defined for jet aeroplane as:

- a) Take-off decision speed
- b) Lift off speed
- c) Critical engine failure speed
- d) Take-off climb speed or speed at 35'

52. With regard to the drift down performance of the twin jet aeroplane, why does the curve representing 35000 kg gross mass in the chart for drift down net profiles start at approximately 4 minutes at FL370?

- a) Due to higher TAS at this mass it takes more time to develop the optimal rate of descent, because of the inertia involved
- b) Because at this mass the engines slow down at a slower rate after failure, there is still some thrust left during four minutes
- c) All the curves start at the same point, which is situated outside the chart
- d) Because at this mass it takes approximately 4 minutes to decelerate to the optimum speed for drift down at the original cruising level[see Annex]

53. A minimum time track is a:

- a) Great circle track
- b) Track determined according to wind conditions
- c) Spherical capable flight segment
- d) Rhumb line

54. According to PART-FCL, an instrument rating is valid for:

- a) Two years
- b) The period of validity of the licence
- c) One year
- d) Indefinitely

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55. VNO is the maximum speed:

- a) Which must never be exceeded.
- b) Not to be exceeded except in still air and with caution.
- c) With flaps extended in landing position.
- d) At which the flight controls can be fully deflected.

56. 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

57. Which of the following, if any, is a prerequisite if a receiver of a NAVSTAR/GPS satellite navigation system is to be used in combination with a multi sensor system?

- a) The prescribed IFR-equipment must be in working correctly and the navigation information continuously displayed
- b) The RAIM-function of the GPS receiver must be able to monitor all prescribed navigation systems
- c) The prescribed IFR-equipment must be installed and operational
- d) 36000 km

58. 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.

59. The radio altimeter is required to indicate zero height AGL as the main wheels touch down on the runway. For this reason, it is necessary to:

- a) Have a specific radio altimeter dedicated to automatic landing.
- b) Adjust the gross height according to the aircraft instantaneous pitch.
- c) Compensate for residual height and cable length.
- d) Change the display scale in short final, in order to have a precise readout.

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60. Given: Dry operating mass (DOM)= 33510 kg Traffic Load= 7600 kg Trip fuel (TF)= 2040 kg Final reserve fuel= 983 kg Alternate fuel= 1100 kg Contingency fuel= 5% of trip fuel Which of the listed estimated masses is correct?

- a) Estimated take-off mass= 45233 kg.
- b) Estimated landing mass at destination= 43193 kg.
- c) Estimated landing mass at destination= 43295 kg.
- d) Estimated take-off mass= 43295 kg.

61. 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.

62. Equivalent Air Speed (EAS) is:

- a) Calibrated Air Speed (CAS) corrected for compressibility error.
- b) True Air Speed (TAS) corrected for compressibility error.
- c) Calibrated Air Speed (CAS) corrected for density error.
- d) True Air Speed (TAS) corrected for compressibility and density errors.

63. Given: Maximum allowable take-off mass 64 400 kg maximum landing mass 56200 kg maximum zero fuel mass 53 000 kg dry operating mass 35 500 kg estimated load 14 500 kg estimated trip fuel 4 900 kg minimum take-off fuel 7 400 kg. Find: maximum additional load

- a) 3 000 kg
- b) 5 600 kg
- c) 7 000 kg
- d) 4 000 kg

64. Refer to the Student Pilot Route Manual: E LO 2 An appropriate flight level for flight on airway B3 from CHATILLON CTL 117.6 (49°08'N 003°35'E) to CAMBRAI CMB 112.6 (50°14'N 003°09'E) is:

- a) FL50
- b) FL80
- c) FL170
- d) FL60

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65. Assuming no compressibility effects, induced drag at constant IAS is affected by:

- a) Aeroplane mass.
- b) Engine thrust.
- c) Altitude.
- d) Outside air temperature.

66. Given: Distance from departure to destination: 180 NM Endurance: 2 h TAS: 120 kt Ground Speed Out: 135 kt Ground Speed Home: 105 kt What is the distance and time of the PSR from the departure point?

- a) Distance: 79 NM Time: 45 min
- b) Distance: 118 NM Time: 53 min
- c) Distance: 62 NM Time: 28 min
- d) Distance: 59 NM Time: 30 min

67. How long is 25 km at 60°00'N?

- a) 13.5 nautical miles.
- b) 46.3 nautical miles.
- c) 27.0 nautical miles.
- d) 40.2 statute miles.

68. A jet aeroplane cruises buffet free at high constant altitude. Which type of stall can occur if this aeroplane decelerates during an inadvertent increase in load factor?

- a) Low speed stall
- b) Accelerated stall
- c) Deep stall
- d) Shock stall

69. With regard to central vision, which of the following statements are correct ?-1: It is due to the functioning of rods-2: It enables details, colours and movement to be seen-3: Its very active both during the day and at night-4: It represents a zone where about 150000 cones per mm are located to give high resolution capacity

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

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70. In an ATC flight plan Item 15 (route), in terms of latitude and longitude, a significant point at 41°35' north 4°15' east should be entered as:

- a) 4135N00415E
- b) N4135 E00415
- c) N04135E0415
- d) 41°35' N 04° 15'E

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Schema Risposte

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

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