

Simulazione di Esame

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



QuizVds.it

NOME ALLIEVO:

DATA & ORA:

01. Given: TAS = 235 kt, HDG (T) = 076°W/V = 040/40kt. Calculate the drift angle and GS?

- a) 7L - 269 kt
- b) 5L - 255 kt
- c) 7R - 204 kt
- d) 5R - 207 kt

02. 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.

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

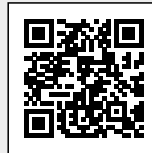
- a) Flight Control Computer
- b) Flight Management Computer
- c) Navigation database
- d) 17 NM

04. The prime meridian is:

- a) The meridian 180° E / W.
- b) The meridian having the highest value of longitude.
- c) The mid meridian on a chart.
- d) The meridian running through Greenwich, England.

Simulazione di Esame

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



QuizVds.it

05. Alcohol, even when taken in minor quantities

- a) Can make the brain cells to be more susceptible to hypoxia
- b) May improve the mental functions, so that the symptoms of hypoxia are much better to be identified
- c) Will have no effect at all
- d) Will stimulate the brain, making the pilot resistant to hypoxia

06. Which of the aeronautical chart symbols indicates a DME?

- a) 2
- b) 3
- c) 6
- d) 1

07. 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

08. Low intensity obstacle lights on fixed objects shall be:

- a) Flashing red.
- b) Flashing yellow.
- c) Fixed orange.
- d) Fixed red.

09. The pitch angle of a constant-speed propeller

- a) Only Varies With Engine Rpm.
- b) Decreases with increasing true air speed.
- c) Increases with increasing true air speed.
- d) Is Independent Of The True Air Speed.

Simulazione di Esame

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



QuizVds.it

10. In case of an engine failure recognized below V1:

- a) The take-off must be rejected
- b) The take-off is to be continued unless V1 is less than the balanced V1
- c) The take-off should only be rejected if a stopway is available
- d) The take-off may be continued if a clearway is available

11. During deceleration following a landing in an easterly direction, a magnetic compass made for the northern hemisphere indicates:

- a) An apparent turn to the north.
- b) A constant heading.
- c) An apparent turn to the south.
- d) A heading fluctuating about 090°.

12. What does the instruction 'Fastair 345 recycle 1240' mean?

- a) Fastair 345 is requested to set new code 1240
- b) Fastair 345 is requested to reselect assigned mode and code 1240
- c) RADAR instructs Fastair 345 to stop squawk 1240 immediately
- d) RADAR informs Fastair 345 that radar service is terminated at time 1240

13. An Omni-bearing selector (OBS) shows full deflection to the left when within range of a serviceable VOR. What angular deviation are you from the selected radial?

- a) Less than 10°
- b) 10° or more
- c) 2.5 or more
- d) 1.5° or more

14. In a mountain-valley wind circulation, the mountain wind blows

- a) At night up from the valley
- b) During the day down from the mountains
- c) At night down from the mountains
- d) During the day up from the valley

Simulazione di Esame

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



QuizVds.it

15. In the event of engine failure below V1, the first action to be taken by the pilot in order to decelerate the aeroplane is to:

- a) Apply wheel brakes
- b) Reverse engine thrust
- c) Deploy airbrakes or spoilers
- d) Reduce the engine thrust

16. When an aeronautical station broadcasts information to more than one station, the call starts with:

- a) 'Message to all aircraft on this frequency'
- b) 'General broadcast'
- c) 'Please listen'
- d) 'All stations'

17. Considering the North Atlantic area north of 60°N during winter, the mean height of the tropopause is approximately:

- a) 56000'
- b) 37000'
- c) 29000'
- d) 20000'

18. Depressions associated with developing frontal waves can be assumed to move in the direction of the 3000 feet wind

- a) Ahead of the warm front
- b) Behind the cold front
- c) In the warm sector
- d) At the apex of the wave

19. If a flight is performed with a higher 'Cost Index' at a given mass which of the following will occur?

- a) A lower cruise Mach number.
- b) An increased maximum range.
- c) A higher cruise Mach number.
- d) An increased long range performance.

Simulazione di Esame

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



QuizVds.it

20. 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.

21. Given: Maximum structural take-off mass: 7400 kg Maximum structural landing mass: 7400 kg Zero Fuel Mass: 5990 kg Taxi Fuel: 15 kg Contingency Fuel: 110 kg Alternate Fuel: 275 kg Final Reserve Fuel: 250 kg Trip Fuel: 760 kg The expected Landing Mass at destination will be:

- a) 7385 kg
- b) 7400 kg
- c) 6625 kg
- d) 7135 kg

22. Which of the following statements about stall speed is correct?

- a) Use of a T-tail will decrease the stall speed
- b) Increasing the angle of sweep of the wing will decrease the stall speed
- c) Increasing the anhedral of the wing will decrease the stall speed
- d) Decreasing the angle of sweep of the wing will decrease the stall speed

23. 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

24. 'Clearway' is defined rectangular area established to:

- a) Reduce the risk of damage to aircraft running off a runway.
- b) Permit aircraft to make a portion of its initial climb to a specific height.
- c) Permit the aircraft to stop if it fails the take-off.
- d) Protect aircraft during take-off or landing operations.

Simulazione di Esame

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



QuizVds.it

25. When a pilot fills in an ATC flight plan, he must indicate the wake turbulence category. This category is a function of which mass?

- a) Estimated take-off mass
- b) Maximum certified landing mass
- c) Maximum certified take-off mass
- d) Actual take-off mass

26. A stress reaction is:

- a) The specific response of the body to demands placed on a person
- b) The non-specific response of the body to demands placed on a person
- c) The specific stimuli causing a human body to respond
- d) The non-specific stimuli causing a human body to respond

27. 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

28. In an ATC flight plan Item 15, in order to define a position as a bearing and distance from a VOR, the group of figures should consist of:

- a) VOR ident, true bearing and distance in kilometres
- b) VOR ident, magnetic bearing and distance in kilometres
- c) VOR ident, magnetic bearing and distance in nautical miles
- d) Full name of VOR, true bearing and distance in kilometres

29. A so called 'Visual Approach' can be performed:

- a) During IFR flights, if there is permanent sight of the movement area and the underlying ground
- b) As in above, but in addition there should be a visibility of 5.5 km or more
- c) During IFR flights, if the cloud base is 1000 ft more than the appropriate DA or MDA for that procedure

Simulazione di Esame

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



QuizVds.it

30. During an IFR flight in VMC in controlled airspace you experience a two-way radio communication failure. You will:

- a) Select A7600 and continue according current flight plan to destination
- b) Land at the nearest suitable aerodrome maintaining VMC and inform ATC
- c) Land at the nearest suitable aerodrome and inform ATC
- d) Descend to the flight level submitted for that portion of flight

31. At about what geographical latitude as average is assumed for the zone of prevailing westerlies?

- a) 50N
- b) 80N
- c) 30N
- d) 10N

32. Which of the following is true of a land breeze?

- a) It blows by day
- b) It blows from water to land
- c) It blows only at noon
- d) It blows from land to water

33. 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.

34. QFE is the RTF Q-code to indicate:

- a) The atmospheric pressure corrected to the aircraft cockpit height
- b) The atmospheric pressure referred to the highest fixed obstacle located on the surface of an aerodrome
- c) The altimeter sub-scale setting to obtain the flight level reference datum
- d) The atmospheric pressure at aerodrome elevation (or at runway threshold)

Simulazione di Esame

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



QuizVds.it

35. GPS satellites transmit on two L-band frequencies with different types of signals. Which of these are generally available for use by civil aviation?

- a) L1-coarse acquisition (C/A) with selected availability (S/A)
- b) L2-for communications purpose
- c) L1-precise (P)
- d) L2-coarse acquisition (C/A)

36. Which one of the following is an advantage of a Microwave Landing System (MLS) compared with an Instrument Landing System (ILS)?

- a) It does not require a separate azimuth (localiser) and elevation (azimuth) transmitter
- b) It is insensitive to geographical site and can be installed at sites where it is not possible to use an ILS
- c) There is no restriction on the number of ground installations that can be operated because there is an unlimited number of frequency channels available
- d) 190 NM

37. A jet aeroplane, with the geometrical characteristics shown in the appendix, has a take-off weight (W) of 460 000 N and a centre of gravity (point G on annex) located at 15.40 m from the zero reference point. At the last moment the station manager has 12 000 N of freight added in the forward compartment at 10 m from the zero reference point. The final location of the centre of gravity, calculated in percentage of mean aerodynamic chord AB (from point A), is equal to:

- a) 16.9 %.
- b) 27.5 %.
- c) 35.5 %.
- d) 30.4 %.

38. An AIRAC is:

- a) A notice distributed by means of telecommunication containing information concerning the establishment, condition or change in any aeronautical facility service, procedure or hazard, the timely knowledge of which is essential to personnel concerned with flight operations.
- b) An acronym for a system aimed at advance notification based on common effective dates, of circumstances necessitating significant changes in operating procedures.
- c) A publication issued by or with the authority of a state containing aeronautical information of a lasting character essential to air navigation.
- d) A package which consists of the following elements: AIP, supplements to the AIP, NOTAM, AIC, checklists and summaries.

Simulazione di Esame

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



QuizVds.it

39. The distress message shall contain as many as possible of the following elements/details:

- a) Aircraft call sign, route of flight, destination airport
- b) Aircraft call sign, aerodrome of departure, position and level
- c) Aircraft call sign, nature of distress, pilot's intention, present position, level and heading
- d) Aircraft call sign, present position, assistance required

40. A category D aeroplane can carry out a circling approach only if the meteorological visibility is higher than or equal to:

- a) 2400 m
- b) 1600 m
- c) 3600 m
- d) 1500 m

41. What does the term 'way point' mean:

- a) A defined position on an aerodrome used for the calibration of the inertial navigation system
- b) A signal indicating the direction of the runway-in-use
- c) A specified geographical position used to define an area navigation route or the flight path of an aircraft employing area navigation
- d) A general term meaning the taxiway- and the runway-system of an international airport

42. If a failed RMI rose is stuck on 090° and the ADF pointer indicates 225°, the relative bearing to the station will be:

- a) Impossible to read, due to failure RMI.
- b) 315°.
- c) 135°.
- d) 225°.

43. In the absence of wind and without the astronomic precession effect, an aircraft would, at a constant gyro heading, follow a:

- a) Rhumb line
- b) Great circle line
- c) Straight map line
- d) Spherical flight segment

Simulazione di Esame

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



QuizVds.it

44. What is the correct way of transmitting the number 3500 when indicating an altitude or an height?

- a) Three five hundred
- b) Three five zero zero
- c) Three five double zero
- d) Three thousand five hundred

45. A ring laser gyro can measure:

- a) Rotation in all directions.
- b) Accelerations about its sensitive axis.
- c) Accelerations in all direction.
- d) Rotation about its sensitive axis.

46. An aeroplane executes a steady glide at the speed for minimum glide angle. If the forward speed is kept constant, what is the effect of a lower mass? Rate of descent / Glide angle / CL / CD ratio

- a) Increases / increases / decreases
- b) Increases / constant / increases
- c) Increases / increases / constant
- d) Decreases / constant / decreases

47. In order to provide an adequate 'buffet boundary' at the commencement of the cruise a speed of 1.3 Vs is used. At a mass of 120000 kg this is a CAS of 180 KT. If the mass of the aeroplane is increased to 135000 kg the value of 1.3 Vs will be:

- a) Increased to 191 KT, drag will increase and air distance per kg of fuel will decrease.
- b) Increased to 202 KT but, since the same angle of attack is used, drag and range will remain the same.
- c) Increased to 191 KT, drag will decrease and air distance per kg of fuel will increase.
- d) Unaffected as Vs always occurs at the same angle of attack.

48. A Special Air Report comprises a number of sections. In section I the pilot fills in:

- a) Weather noted
- b) A position report, including aircraft identification, height, position and time
- c) Urgent messages
- d) Flight identification and weather noted

Simulazione di Esame

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



QuizVds.it

49. Iron and brass are commonly used in bimetallic thermometers, because:

- a) They have two different weights.
- b) They have two different values of flexional strength.
- c) They have two different coefficients of linear expansion.
- d) They have two different electrical resistances when the temperature changes.

50. What is the correct suffix to be used when establishing radio contact in an area control centre?

- a) Control
- b) Centre
- c) Control centre
- d) Radio

51. The system notifying in advance the circumstances requiring important changes in the methods of operation, based on common effective dates, is identified by the acronym:

- a) NOTAM
- b) PANS
- c) AIRAC
- d) IFPS

52. Refer to CAP 697 Section 2 SEP1 Page 3 Figure 2.1 Time, Fuel and Distance to Climb. Given: Take-off mass 3500 lbs, departure aerodrome pressure altitude 2500 ft, OAT +10°C, First cruising level: FL 140, OAT -5°C Find the time, fuel and still air distance to climb.

- a) 24 min, 7.7 GAL, 47 NAM
- b) 16.5 min, 4.9 GAL, 34.5 NAM
- c) 23.5 min, 7.1 GAL, 48.5 NAM
- d) 23 min, 7.7 GAL, 50 NAM

53. What mass has to be entered in the loading chart for aviation fuel F 34 if 170 l may be refuelled? (Fuel density = 0.78 kg/l)

- a) 133 kg
- b) 218 kg
- c) 170 kg
- d) 133 daN

Simulazione di Esame

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



QuizVds.it

54. In relation to the net take-off flight path, the required 35 ft vertical distance to clear all obstacles is:

- a) Based on pressure altitudes
- b) The minimum vertical distance between the lowest part of the aeroplane and all obstacles within the obstacle domain
- c) The height at which power is reduced to maximum climb thrust
- d) The height by which acceleration and flap retraction should be completed

55. The flight log gives the following data: True track, Drift, True heading, Magnetic variation, Magnetic heading, Compass deviation, Compass heading. The right solution, in the same order, is:

- a) 115°, 5°R, 120°, 3°W, 123°, +2°, 121°
- b) 119°, 3°L, 122°, 2°E, 120°, +4°, 116°
- c) 125°, 2°R, 123°, 2°W, 121°, -4°, 117°
- d) 117°, 4°L, 121°, 1°E, 122°, -3°, 119°

56. What happens to the drag of a jet aeroplane if, during the initial climb after take off, constant IAS is maintained? (Assume a constant mass)

- a) The drag decreases
- b) The drag increases considerably
- c) The drag increases initially and decreases thereafter
- d) The drag remains almost constant

57. 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.

58. Which of these statements about structural design principles are correct or incorrect? 1) The DAMAGE TOLERANCE principle assumes cracks in the structure will never occur. 2) The SAFE LIFE principle is based on the replacement of parts after a given number of cycles or flight hours.

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

Simulazione di Esame

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



QuizVds.it

59. The QFF at an airfield located 400 metres above sea level is 1016 hPa. The air temperature is 10°C lower than a standard atmosphere. What is the QNH?

- a) More than 1016 hPa
- b) 1016 hPa
- c) Less than 1016 hPa
- d) It is not possible to give a definitive answer

60. An aircraft wishes to obtain a bearing from a VDF station that will be plotted on the chart relative to True North. The correct RT call is:

- a) True bearing, true bearing, G-BNKD request true bearing, G-BNK
- b) G-BNKD request QGH, G-BNK
- c) G-BNKD training fix, training fix, training fix, G-BN
- d) G-BNKD request QGH, G-BNK G-BNKD training fix, training fix, training fix, G-BNK G-BNKD request QDM, G-BNK

61. A controlled airspace extending upwards from the surface of the Earth to a specified upper limit is:

- a) Control zone.
- b) Advisory airspace.
- c) Control area.
- d) Air traffic zone.

62. Which forces are balanced with geostrophic winds?

- a) Friction force, Pressure gradient force, Coriolis force.
- b) Pressure gradient force, Coriolis force.
- c) Pressure gradient force, Centrifugal force, Friction force.
- d) Pressure gradient force, Coriolis force, Centrifugal force.

63. What is the purpose of the pack cooling fans in the air conditioning system?

- a) Supplying The Heat Exchangers With Cooling Air During Cruise Flight.
- b) Supplying the heat exchangers with cooling air during slow flights and ground operation.
- c) Cooling of the APU compartment.
- d) Supplying The Passenger Service Unit (psu) With Fresh Air.

Simulazione di Esame

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



QuizVds.it

64. 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

65. The mass displacement caused by landing gear extension:

- a) Does not create a longitudinal moment
- b) Creates a pitch-up longitudinal moment
- c) Creates a pitch-down longitudinal moment
- d) Creates a longitudinal moment in the direction (pitch-up or pitch-down) determined by the type of landing gear

66. When turning into a desired radial, FD bars indicate:

- a) 45° angle of bank.
- b) 30° angle of bank.
- c) Correct attitude to intercept radial.
- d) 15° angle of bank.

67. My message will be more effective and understandable if I:

- a) Use the words twice method
- b) Stress the end of message
- c) Maintain the speaking volume at a constant level
- d) Stress every beginning of message

68. Absolute instability is said to exist whenever the environmental lapse rate

- a) Is less than the dry adiabatic lapse rate
- b) Is less than the saturated adiabatic lapse rate
- c) Exceeds the dry adiabatic lapse rate
- d) Is between the dry and saturated adiabatic lapse rate

Simulazione di Esame

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



QuizVds.it

69. What is meant by good microphone technique ?

- a) Use a normal conversation tone, speak clearly and distinctly.
- b) Make large use of hesitation sounds as 'er'.
- c) Keep the microphone far away since it improves the readability.
- d) Speak very loudly into the microphone.

70. The stall speed (IAS) will change according to the following factors:

- a) May increase with altitude, especially high altitude, will increase during icing conditions and will increase when the cg moves forward
- b) Will increase with increased load factor, more flaps and increased bank angle in a turn
- c) Will increase in a turn, higher temperature and will increase when the cg moves aft
- d) May increase when the cg moves forward, with higher altitude and due to the slipstream from a propeller on an engine located forward of the wing

Simulazione di Esame

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



QuizVds.it

Schema Risposte

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

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