

Simulazione di Esame

Radio Navigation - ATPL - Airline Transport Pilot Licence, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

01. Which of the following answers is true?

- a) V1 is higher VLOF
- b) V1 is lower or equal to VR
- c) V1 is lower VMCG
- d) V1 is higher VR

02. Refer to Student Pilot Route Manual E(LO)1 Given:SHA VOR (N5243.3 W00853. 1) radial 120°, CRK VOR (N5150.4 W00829.7) radial 033°.What is the aircraft position?

- a) N5225 W00805
- b) N5220 W00750
- c) N5230 W00800
- d) N5240 W00750

03. When a member state allows police officers, security staff, bodyguards or other agents of foreign states to carry weapons in their territory for the protection of aircraft in flight, permission for the carriage of weapons should be conditional upon:

- a) Agreement between the state of embarkation and the state of destination
- b) Notification of the pilot in command of a decision to permit a weapon to be carried on board his aircraft only
- c) Agreement between the state of embarkation and the airport of arrival
- d) Prior notification by the state of embarkation to the foreign state in which the weapons will be carried on the airport of arrival and notification of the pilot in command of a decision to permit a weapon to be carried on board his aircraft

04. Chemical oxygen generators are used to furnish oxygen to the:

- a) Cockpit Only.
- b) Cockpit and the cabin.
- c) Toilets only.
- d) Cabin only.

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05. Which of the following statements concerning hypoxia is correct?

- a) It is never a problem at altitudes below 25.000 ft.
- b) It has little effect on the body, because the body can always compensate for it.
- c) It activates the senses and makes them function better.
- d) It is a potential threat to safety.

06. Aircraft X-BC has been instructed to contact Stephenville TOWER on frequency 118.7. What is the correct response to indicate that it will follow this instruction ?

- a) Will change to TOWER X-BC
- b) 118.7 X-BC
- c) Stephenville TOWER X-BC
- d) Changing over X-BC

07. When an aircraft station receives the call 'ALL STATIONS Stephenville RADAR, distress traffic ended' it is requested:

- a) To resume normal communication with Stephenville RADAR
- b) Discontinue communication with Stephenville RADAR
- c) Acknowledge receipt of this message
- d) To impose silence to other stations in its vicinity

08. In the ATC flight plan item 15, it is necessary to enter any point at which a change of cruising speed takes place. For this purpose a 'change of speed' is defined as:

- a) 20 km per hour or 0.1 Mach or more
- b) 10 % TAS or 0.05 Mach or more
- c) 20 knots or 0.05 Mach or more
- d) 5% TAS or 0.01 Mach or more

09. Before Transmitting the pilot should:

- a) Make sure that the aircraft is levelled off.
- b) Make sure that the emergency frequency is tuned in at the same time.
- c) Listen out on the frequency to ensure no interference with another station already transmitting will occur.
- d) Always write the message and read it during the transmission.

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10. Which statement is correct? I. Stall speeds are determined with the CG at the aft limit. II. Minimum control speeds are determined with the CG at the forward limit.

- a) I is incorrect, II is incorrect.
- b) I is incorrect, II is correct.
- c) I is correct, II is incorrect.
- d) I is correct, II is correct.

11. An aircraft making a radar approach should be advised to consider executing a missed approach, if the position or identification of the aircraft is in doubt during any portion of the final approach or if the aircraft is not visible on the radar display for significant interval during the last:

- a) 2 NM.
- b) 4 NM.
- c) 1 NM.
- d) 3 NM.

12. As a result of automation in cockpits,

- a) It is easier for the captain to monitor the work of the first officer and vice versa
- b) The need for communication between crew members has been decreased
- c) Communication and coordination call for an even greater effort on the part of the crew members
- d) Communication and coordination have clearly improved in man-man and man-machine relations

13. The International Date Line is located:

- a) At the apparent sun's anti meridian.
- b) At the 180° E/W meridian, or in the vicinity of this meridian.
- c) At latitudes on the 180° E/W meridian.
- d) At the Greenwich meridian.

14. The spin axis of the turn indicator gyro is aligned along the:

- a) Lateral axis of the aircraft.
- b) Longitudinal axis of flight.
- c) Vertical axis of the aircraft.
- d) Longitudinal axis of the aircraft.

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15. When taking-off after a widebody aircraft which has just landed, you should take-off:

- a) In front of the point where the aircraft's wheels have touched down.
- b) Beyond the point where the aircraft's wheels have touched down.
- c) At the point where the aircraft's wheels have touched the ground and on the underwind side of the runway .
- d) At the point where the aircraft's wheels have touched down and on the wind side of the runway .

16. 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

17. Prior to departure an aircraft is loaded with 16500 litres of fuel at a fuel density of 780 kg/m³. This is entered into the load sheet as 16500 kg and calculations are carried out accordingly. As a result of this error, the aircraft is

- a) Lighter than anticipated and the calculated safety speeds will be too low
- b) Lighter than anticipated and the calculated safety speeds will be too high
- c) Heavier than anticipated and the calculated safety speeds will be too low.
- d) Heavier than anticipated and the calculated safety speeds will be too high

18. Considering only structural limitations, on very short legs with minimum take-off fuel, the Traffic Load is normally limited by:

- a) Maximum Zero Fuel Mass.
- b) Actual Landing Mass.
- c) Maximum Take-off Mass.
- d) Maximum Landing Mass.

19. Which of the following systems are involved in motion sickness? 1: Hearing 2: The vestibular system 3: Vision 4 The proprioceptive senses 'Seat-of-the-Pants-Sense') 5: The gastrointestinal system

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

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20. The landing reference speed VREF has, in accordance with CS 25, the following margins above reference stall speed in landing configuration:

- a) 23%
- b) 10%
- c) 20%
- d) 15%

21. 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 °

22. Taxiway centre line lights other than an exit taxiway shall be:

- a) Fixed lights showing blue.
- b) Fixed lights showing yellow.
- c) Fixed lights showing green.
- d) Fixed lights showing white.

23. In meteorology, which constituent is considered the most important in the atmosphere's composition?

- a) Oxygen
- b) Nitrogen
- c) Hydrogen
- d) Water vapour

24. An aircraft with a pressurized cabin is settled at its cruise level. During the flight, a malfunction of the pressure controller is detected by the crew and the cabin altitude rate indicator reads -200ft/min. Given that: DELTA P: Differential pressure Zc: Cabin altitude

- a) A Descent Must Be Initiated To Prevent The Oxygen Masks Dropping When Zc Reaches 14000ft.
- b) The aircraft has to climb to a higher flight level in order to reduce Zc to its initial value.
- c) DELTA P will rise up to its maximum value, thus causing the safety relief valves to open.
- d) The Crew Has To Intermittently Cut Off The Incoming Air Flow In Order To Maintain A Zero Zc.

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25. 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

26. Drag is in the direction of - and lift is perpendicular to the:

- a) Chord line
- b) Relative wind/airflow
- c) Longitudinal axis
- d) Horizon

27. The selection of code 7600 on an aircraft SSR transponder indicates:

- a) An emergency
- b) Radio communication failure
- c) Transponder malfunction
- d) 6.8 km

28. A pilot who is hyperventilating for a prolonged period of time may even become unconscious. Hyperventilation is likely to occur, when:

- a) There is a low CO₂-pressure in the blood
- b) The pilot is emotionally aroused
- c) There is an increased blood flow to the brain
- d) He/she is flying a tight turn

29. OPS 1 applies to:

- a) Aircraft used by police, customs and defence departments.
- b) Aircraft proceeding from European states or flying over them.
- c) The operation by a EASA state member of any civil aircraft.
- d) The operation by a EASA state member of any civil commercial transport aeroplane.

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30. When operating two AC generators unparalleled, the phase relationship of each generator:

- a) Must Be Synchronous.
- b) Is unimportant.
- c) Must be 90° out of synchronisation.
- d) Must Be In Opposition.

31. A CO2 fire extinguisher can be used for:1. a paper fire2. a hydrocarbon fire3. a fabric fire4. an electrical fire5. a wood fireThe combination regrouping all the correct statements is:

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

32. A descent is planned from 7500 ft AMSL so as to arrive at 1000 ft AMSL 6 NM from a VORTAC. With a GS of 156 kts and a rate of descent of 800 ft/min. The distance from the VORTAC when descent is started is:

- a) 15,0 NM
- b) 27,1 NM
- c) With a GS of 156 kts and a rate of descent of 800 ft/min. The distance from the VORTAC when descent is started is: 15,0 NM 27,1 NM 30,2 NM
- d) 11,7 NM

33. A flight is to depart from an airport with runways 09 and 27. Surface wind is 270/05

- a) An inversion is reported at 300 feet with turbulence and wind shear. The wind just above the inversion is 090/30. What is the safest departure procedure ?
- b) Depart runway 27 with maximum throttle during the passage through the inversion.
- c) Depart runway 27 with as steep an ascent as possible.
- d) Depart on runway 09 with a tailwind.

34. The thrust of a jet engine at constant RPM

- a) Increases in proportion to the airspeed.
- b) Is inversely proportional to the airspeed.
- c) Is independent of the airspeed.
- d) Does not change with changing altitude.

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35. 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.

36. Given: TAS = 190 kt, True HDG = 085°, W/V = 110°(T)/50kt. Calculate the drift angle and GS?

- a) 7°L - 156 kt
- b) 4°L - 168 kt
- c) 8°L - 146 kt
- d) 4°L - 145 kt

37. 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

38. In a commercial transport aircraft the landing gear operating system is usually:

- a) Hydraulically driven.
- b) Electrically driven.
- c) Pneumatically driven.
- d) Mechanically Driven.

39. 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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40. Which word or phrase shall be used in order to repeat for clarity or emphasis?

- a) Confirm
- b) Read back
- c) I say again
- d) Verify

41. A gust front is

- a) Formed by the cold air outflow from a thunderstorm
- b) Another name for a cold front
- c) Characterized by heavy lightning
- d) Normally encountered directly below a thunderstorm

42. Up to what altitude is blood oxygen saturation reduction unlikely to affect a pilot's judgement?

- a) 20,000 FT
- b) 10,000 FT
- c) 30,000 FT
- d) 25,000 FT

43. The inertial navigation system (INS) indicates: Position: 71° 55.1'N 094°55.3'W Drift: 6°L (left) The route followed in order to return to the VOR station is the meridian of the VOR station used: RESOLUTE BAY (74°43.6'N 094°55.3'W), this VOR has North set on the local geographic meridian. The gyro compass has just been reset to Grid North (chart used: polar stereographic chart, grid parallel to zero meridian, Grid North in the direction of geographic North Pole). The correct representation of the RMI VOR/DME is at this moment: (the distance DME is in the box)

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

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44. What is the average track ($^{\circ}$ T) and distance between BAL VOR (N5318.0 W00626.9) and CRN NDB (N5318.1 W00856. 5)?

- a) 1115 UTC
- b) 1050 UTC
- c) After flying 75 NM along track from 'A', the aircraft is 1.5 MIN behind planned time. Using the actual GS experienced, what is the revised ETA at 'B'? 1115 UTC 1050 UTC 1044 UTC
- d) 1110 UTC

45. During a glide at constant Mach number, the pitch angle of the aeroplane will:

- a) Increase
- b) Increase at first and decrease later on
- c) Decrease
- d) Remain constant

46. 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

47. Which of the following describes a warm occlusion?

- a) The air mass ahead of the front is drier than the air mass behind the front
- b) The air mass behind the front is more unstable than the air mass ahead of the front
- c) The warmer air mass is ahead of the original warm front
- d) The coldest air mass is ahead of the original warm front

48. When letters are used for registration mark combinations shall not be used which might be confused with urgent signals for example:

- a) TTT
- b) LLL
- c) RCC
- d) FFF

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49. The wind direction in a METAR is measured relative to

- a) Magnetic north
- b) The 0-meridian
- c) True north
- d) Grid north

50. What is "conversion angle":

- a) The angular difference between the rhumb line and the great circle between two positions, measured at any of the two positions.
- b) The angle at which speech from another person enters the ear.
- c) The angle used to convert from true to compass directions.
- d) The difference between the rhumb line and the great circle directions.

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

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

52. In a ditching situation, except for infants, the passengers shall be instructed to inflate their life jackets:

- a) As soon as ditching is prepared.
- b) Immediately on the opening of the exits.
- c) When exiting the aircraft.
- d) Immediately on ditching.

53. A passenger complains about a painful inflated belly at 8.000 feet. You advise him to:
1. unbuckle and massage the belly
2. stand up and let go the gases out of the intestines
3. eat less gas forming food and avoid carbonhydrated beverages before flight in the future
4. drink a lot of water throughout the flight

- a) 2, 3 and 4 are correct
- b) 1 and 3 not advisable
- c) 1, 2 and 3 are correct
- d) Only 4 is correct

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54. What does the word 'correct' mean?

- a) That is correct
- b) Negative, the correct version is ...
- c) Permission for proposed action not granted
- d) An error has been made in this transmission. The correct version is ...

55. 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.

56. Refer to Student Pilot Route Manual London, Heathrow (Plate 10- 3):Which of the following is a correct Minimum Safe Altitude (MSA) for the Airport?

- a) West sector 2300 ft within 25 NM
- b) East sector 2100 ft within 50 NM
- c) West sector 2100 ft within 25 NM
- d) East sector 2300 ft within 50 NM[see Annex]

57. Which one of the following is correct?

- a) Arm = Force / Moment
- b) Moment = Force / Arm
- c) Arm = Moment / Force
- d) Arm = Force X Moment

58. What do the spoken words " PAN PAN MEDICAL " mean ?

- a) The message which follows concerns a protected medical transport operated by aircraft assigned exclusively to medical transportation
- b) The phrase/signal is inadmissible in radiotelephony
- c) The aircraft has an urgent need of medical care upon landing at destination airport
- d) The aircraft has a sick passenger on board and requests priority to land

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59. During deceleration following a landing in a southerly direction, a magnetic compass made for the northern hemisphere indicates:

- a) An apparent turn to the east.
- b) An apparent turn to the west.
- c) No apparent turn.
- d) No apparent turn only on northern latitudes.

60. What does the word 'check' mean?

- a) Confirm your last transmission
- b) Read back my last instruction
- c) Examine a system or procedure
- d) I understand your message

61. To optimise one's night-vision performance, it is necessary:- 1: to spend some time getting adapted to low levels of illumination- 2: to increase the instrument panel lighting by reducing the cockpit lighting- 3: not to focus on the point to be observed- 4: to avoid blinding sources of light

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

62. When flying at 6000 feet above ground level, the DME indicates 5 NM. What is the horizontal distance from the aircraft to overhead the DME?

- a) 4.9 NM
- b) 4.3 NM
- c) 4.6 NM
- d) 5.2 NM

63. A wind of 20 knots corresponds to an approximate speed of

- a) 10 km/h
- b) 40 m/sec
- c) 50 km/h
- d) 10 m/sec

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64. If the take-off mass of an aeroplane is brake energy limited a higher uphill slope would:

- a) Decrease the maximum mass for take-off
- b) Increase the maximum mass for take-off
- c) Decrease the required take-off distance
- d) Have no effect on the maximum mass for take-off

65. 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

66. Over Madrid, what intensity of turbulence and icing is forecast at FL 200 ?

- a) Severe turbulence, moderate icing
- b) Moderate turbulence, light icing
- c) Severe turbulence, severe icing
- d) Moderate turbulence, moderate icing[see Annex]

67. If the thrust available exceeds the thrust required for level flight

- a) The aeroplane descends if the airspeed is maintained.
- b) The aeroplane accelerates if the altitude is maintained.
- c) The aeroplane decelerates if the altitude is maintained.
- d) The aeroplane decelerates if it is in the region of reversed command.

68. If a flight is planned to operate along the whole length of one of the organised tracks, the intended organised track should be defined in items of the flight plan by:

- a) Using the abbreviation 'OTS' followed by the code letter assigned to the track
- b) Inserting coordinates as detailed in the NAT track message
- c) Inserting coordinates defining significant points with intervals of 10° of longitude
- d) The abbreviation 'NAT' followed by the code letter assigned to the track

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69. For the same pressure gradient at 60°N, 50°N and 40°N the speed of the geostrophic wind will be:

- a) Greatest at 60°N.
- b) The same at all latitudes.
- c) Least at 50°N.
- d) Greatest at 40°N.

70. How many hours in advance of EOBT should a ATC flight plan be filed in the case of flights into areas subject to air traffic flow management (ATFM)?

- a) 1:00 hour.
- b) 3:00 hours.
- c) 2 hours.
- d) 0:30 hours.

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Schema Risposte

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

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