

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

STUDENT NAME:

DATE AND TIME:

01. Modern low altitude radio altimeters emit waves in the following frequency band:

- a) VLF (Very Low Frequency).
- b) HF (High Frequency).
- c) UHF (Ultra High Frequency).
- d) SHF (Super High Frequency).

02. An aeroplane is operated at FL 330. 22 passenger are on board. The first aid oxygen to be on board at departure shall provide breathing supply for at least:

- a) 1 passenger for the remainder of the flight after cabin depressurisation when the cabin altitude exceeds 14000 ft.
- b) No first aid required.
- c) 2 passengers for the remainder of the flight after cabin depressurisation when the cabin altitude exceeds 10000 ft.
- d) 1 passenger for the remainder of the flight after cabin depressurisation when the cabin altitude exceeds 8000 ft.

03. After a landing, with overweight and overspeed conditions, the tyres and brakes are extremely hot. The fire personnel should approach the landing gear tyres:

- a) Only from the front or rear
- b) Under no circumstances
- c) From any side
- d) Only from the left or right side

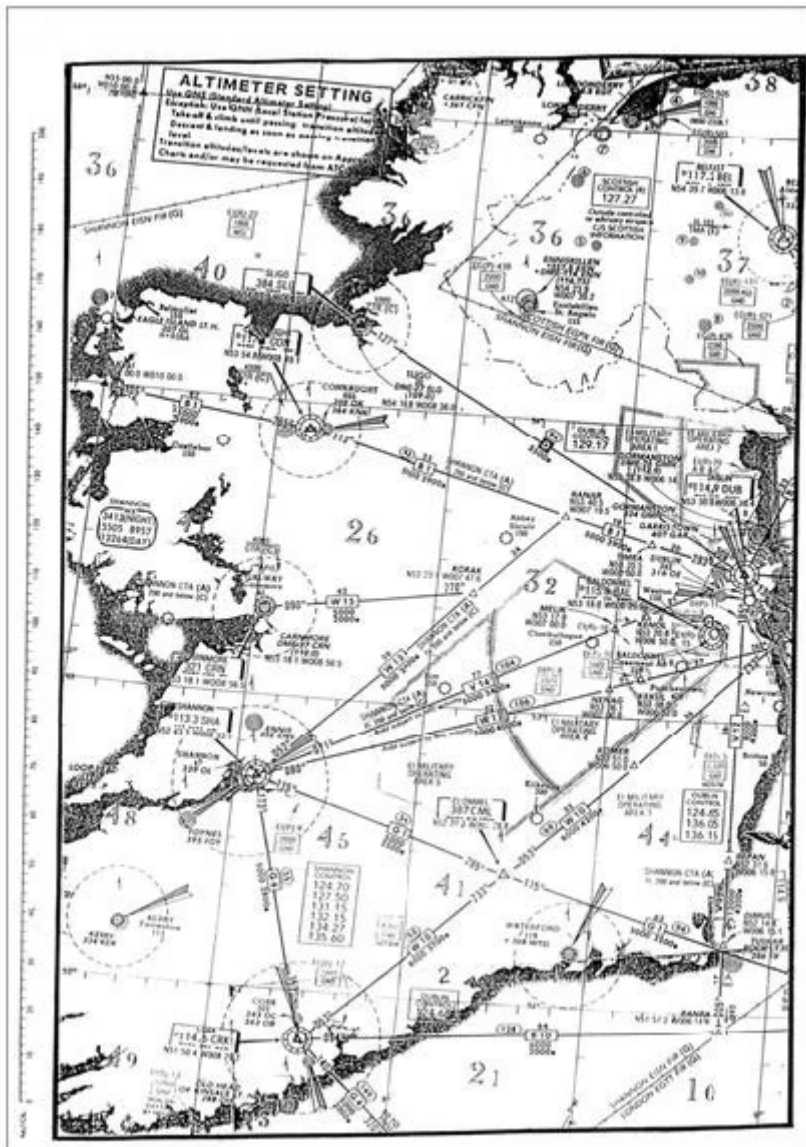
Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

04. Refer to Student Pilot Route Manual E(LO)1. What is the radial and DME distance from CRK VOR/DME (N5150.4 W00829.7) to position N5210 W00920?



- a) 311° - 38 NM
- b) 170° - 22 NM
- c) 295° - 38 NM
- d) 350° - 22 NM

Exam simulation

ATPL - Airline Transport Pilot license - Communications

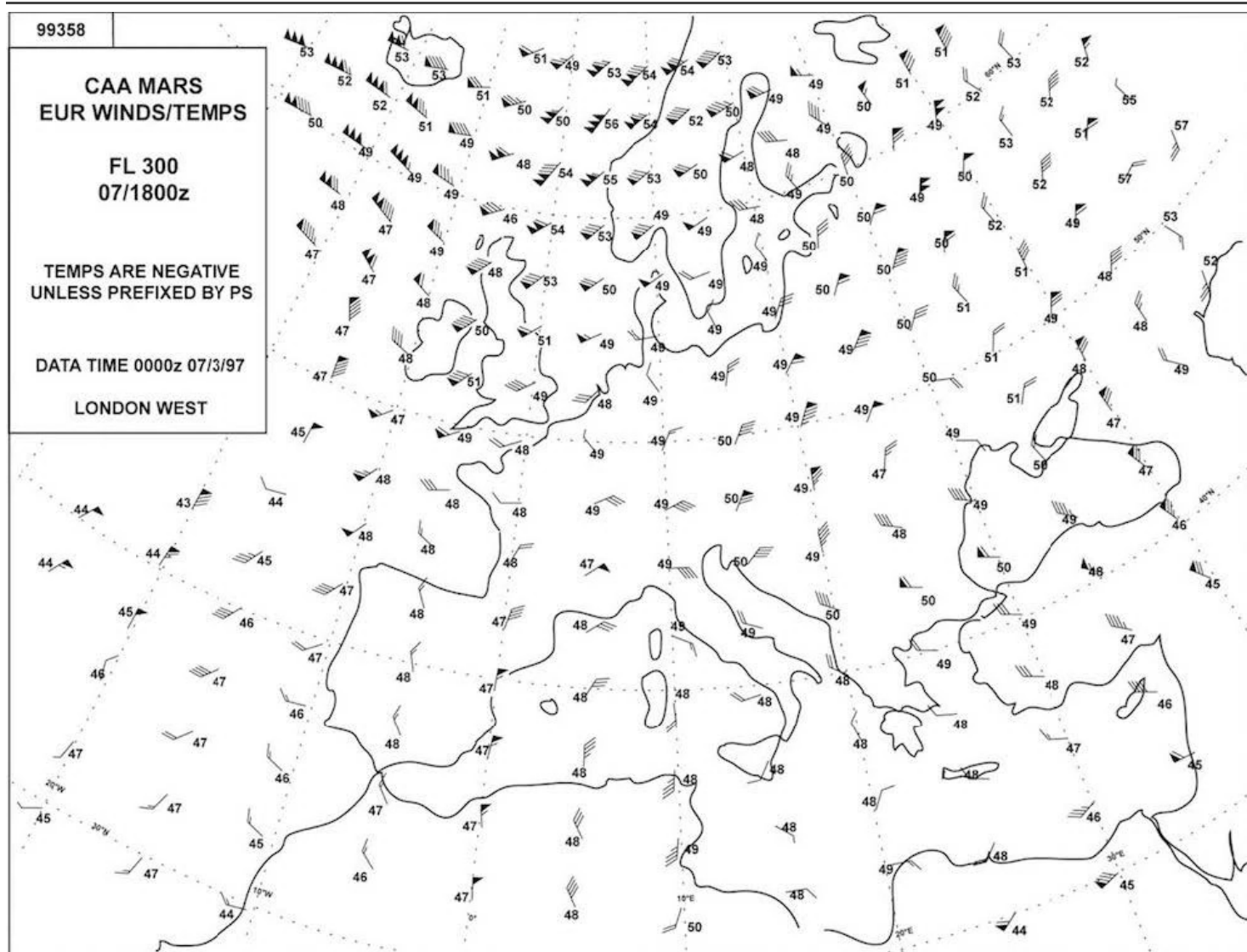


Quizvds.it

05. Approximately how many nautical miles correspond to 12 cm on a map with a scale of 1: 2 000 000?

- a) 130
- b) 43
- c) 329
- d) 150

06. What mean temperature ($^{\circ}\text{C}$) 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

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

07. What is the ratio between the litre and the US-GAL?

- a) 1 US-GAL equals 4.55 litres
- b) 1 litre equals 3.78 US-GAL
- c) 1 litre equals 4.55 US-GAL
- d) 1 US-GAL equals 3.78 litres

08. At latitude 60°N the scale of a Mercator projection is 1: 5 000 000. The length on the chart between 'C' N60° E008° and 'D' N60° W008° is:

- a) 17.8 cm
- b) 19.2 cm
- c) 35.6 cm
- d) 16.2 cm

09. The Maximum Certificated Taxi (or Ramp) Mass is that mass to which an aeroplane may be loaded prior to engine start. It is:

- a) A value which varies with airfield temperature and altitude. Corrections are listed in the Flight Manual.
- b) A value which varies only with airfield altitude. Standard corrections are listed in the Flight Manual.
- c) A fixed value which is listed in the Flight Manual.
- d) A value which is only affected by the outside air temperature. Corrections are calculated from data given in the Flight Manual.

10. Who shall be satisfied, before flight, that the aircraft's weight is such that flight can be safely made, and that any transported cargo is properly distributed and secured?

- a) The flight engineer.
- b) The operator.
- c) The airline's dispatcher.
- d) The commander.

11. A VOR and an ADF are co-located. In NIL wind conditions you cross the VOR radial of 240 on a heading of 360°(M). In the vicinity of the station you should read an ADF bearing of:

- a) 240
- b) 060
- c) 120
- d) 300

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

12. A three-phase electrical tachometer consists of:

- a) A three-phase generator, a synchronous motor and a magnetic tachometer.
- b) Three speed probes and a phonic wheel.
- c) A speed probe and a phonic wheel.
- d) Three associated dynamos.

13. The physiological effects of accelerations to the human body depend on: 1. the duration of the G-forces 2. the onset rate of the G-forces 3. the magnitude of the G-forces 4. the direction of the G-forces.

- a) 1,2,3 and 4 are correct
- b) 1 and 4 are correct, 3 is false
- c) 2,3 and 4 are correct, 1 is false
- d) 1,2,3 are correct, 4 is false

14. Professional languages have certain characteristics, for example: - 1: They use a limited vocabulary. - 2: They are rich and adapted to the context, which sometimes lead to ambiguities. - 3: Their grammar is rather complicated and complex. - 4: Context provides meaning, therefore reduces the risk of ambiguities.

- a) 1 and 4 are correct
- b) Only 4 is correct
- c) 2 and 3 are correct
- d) 1 and 3 are correct

15. 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

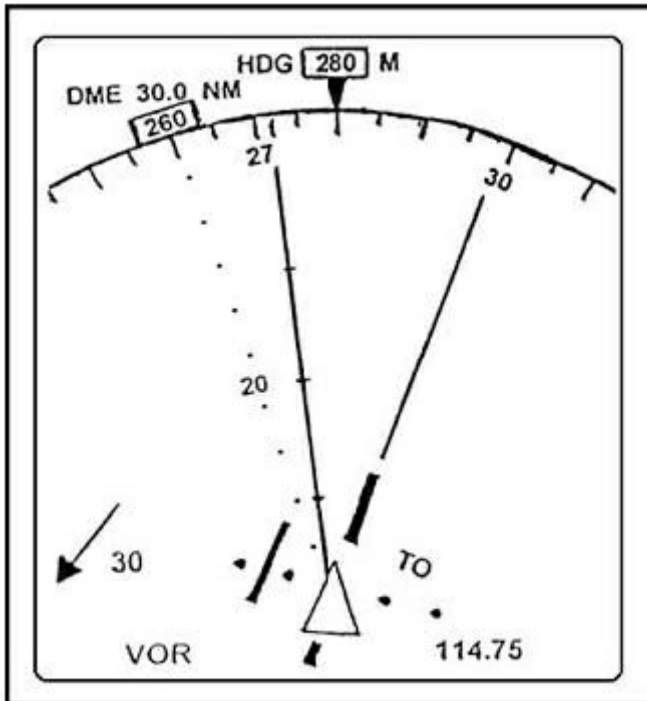
Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

16. What is the value of the selected course?



- a) 272°(M)
- b) 299°(M)
- c) 280°(M)
- d) 260°(M)

17. Assume a magnetic variation of 4 degrees East. What is the magnetic course for a VFR flight from PEITING (47°48.0'N, 010°55.5'E) to IMMENSTADT (47°33.5'N, 010°13.0'E)?

- a) 059°
- b) 247°
- c) 243°
- d) 239°

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

18. According to current commercial air transport rules, on an IFR flight a commander shall not commence take-off unless the expected weather conditions at the destination and/or required alternate aerodrome(s) are at or above:

- a) The aerodrome operating minima, at the estimated time of arrival, and for a reasonable period before and after such a predicted time.
- b) The planning minima, during a period from 1 hour before to 1 hour after the estimated time of arrival at the aerodrome.
- c) The aerodrome operating minima, during a period from 1 hour before to 1 hour after the estimated time of arrival at the aerodrome.
- d) The planning minima, at the estimated time of arrival.

19. At constant fuel flow, if engine compressor air is bled off for engine anti-icing or a similar system, the turbine temperature:

- a) May rise or fall depending on which stage of the compressor is used for the bleed and the RPM of the engine at the moment of selection.
- b) Will rise.
- c) Will fall.
- d) Will be unchanged.

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

20. Find the SHORT DISTANCE CRUISE ALTITUDE for the twin jet aeroplane. Given: Brake release mass=45000 kg, Temperature=ISA + 20°C, Trip distance=50 Nautical Air Miles (NAM)

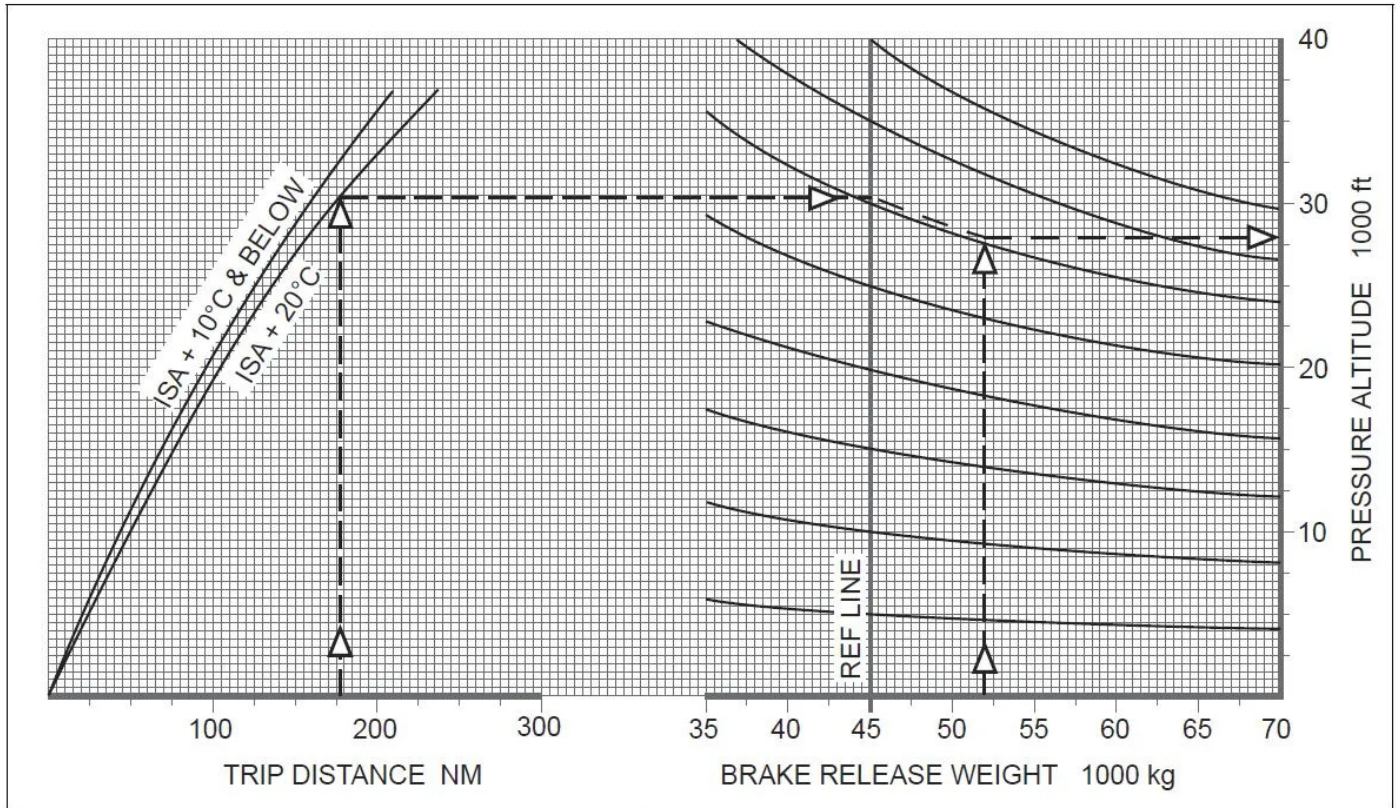


Figure 4.2 Short Distance Cruise Altitude

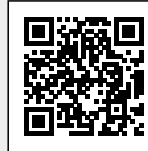
- a) 7500 ft
- b) 12500 ft
- c) 10000 ft
- d) 11000 ft

21. When a commercial transport passenger aircraft is equipped with a door in the flight crew compartment area, this door must include:

- a) A device preventing the flight crew from being locked in the cockpit.
- b) A locking system to prevent any unauthorized access.
- c) A sealing system which, in case of depressurisation in the compartment area allows the maintenance of the pressure in the cockpit for as long as possible.
- d) Distinctive red or yellow coloured markings indicating the access area (in case of a blocked door).

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

22. What characterises the notion of role?

- a) The function and behaviour associated with the particular role
- b) The hierarchical position of the function and the associated behaviour
- c) The characteristic behaviour associated with the description of the various roles of a particular status
- d) Only the functions associated with role

23. Power plant fire extinguishers are operated by:

- a) An electrically heated capsule rupturing a seal in the pipeline at the engine.
- b) Manual remote control opening a discharge valve.
- c) An electrically fired cartridge rupturing a seal in the head of the bottle.
- d) A mechanical link withdrawing a safety pin and allowing a spring operated plunger to rupture the bottle seal.

24. Assume a magnetic variation of 4 degrees East. What are the magnetic course and the distance for a flight from SIGMARINGEN (48°05'N, 009°13'E) to BIBERACH airport (48°07'N, 009°46'E)?

- a) Magnetic course 089°, distance 22 NM
- b) Magnetic course 081°, distance 22 NM
- c) Magnetic course 261°, distance 22 NM
- d) Magnetic course 085°, distance 41 NM

25. An aircraft is required to approach a VOR via the 104° radial. Which of the following settings should be made on the VOR/ILS deviation indicator?

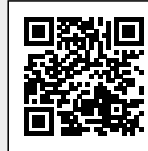
- a) 284° with the TO flag showing
- b) 104° with the FROM flag showing
- c) 104° with the TO flag showing
- d) 284° with the FROM flag showing

26. A commercial air transport aeroplane with reciprocating engines, the final reserve should be:

- a) Fuel to fly for 2 hours
- b) Fuel to fly for 1 hour at holding speed
- c) Fuel to fly for 45 minutes
- d) Fuel to fly for 30 minutes at holding speed

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

27. What are the most frequent results of a self-centred captain on the flight deck?

- a) A major risk of authority inversion if the co-pilot is unassertive
- b) High group performance despite the strained relations
- c) Performance is very poor as self-centred behaviour leads to an increase of cooperation and efficiency
- d) In a two-pilot flight deck, the co-pilot is ignored and may react by disengaging, showing delayed responses or aggression

28. The angle of attack of a fixed pitch propeller blade increases when:

- a) Velocity and RPM increase
- b) Forward velocity increases and RPM decreasing
- c) RPM increases and forward velocity decreases
- d) Velocity and RPM decrease

29. Search and Rescue. The colour of droppable containers and streamers for food and water is:

- a) Red
- b) Black
- c) Blue
- d) Yellow

30. A water fire-extinguisher (straight jet) can be used on a fire of: 1 - solids (fabric, carpet,...). 2 - liquids (ether, gasoline,...). 3 - gas. 4 - metals (sodium,...). The combination regrouping all the correct statements is:

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

31. On an ILS approach, the glidepath needle is fully down. How much deflection does this indicate?

- a) 0.7°
- b) 5°
- c) 10°
- d) 2.5°

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

32. The atmosphere contains the following gases:

- a) 78% helium, 21% oxygen, 1% carbon monoxide, rest: rare gases
- b) 78% nitrogen, 21% oxygen, 1% carbon monoxide, rest: rare gases
- c) 78% helium, 21% oxygen, 0,03% carbon dioxide, rest: rare gases
- d) 78% nitrogen, 21% oxygen, 0,03% carbon dioxide, rest: rare gases

33. Viscous hydroplaning occurs primarily if the runway is covered with a thin film of water and:

- a) The runway is very smooth and clean
- b) The runway is very smooth and dirty
- c) The tyre treads show minor cuts
- d) The runway has a rough surface

34. On a Lambert conformal chart the distance between meridians 5° apart along latitude 37° North is 9 cm. The scale of the chart at that parallel approximates:

- a) 1: 3 750 000
- b) 1: 2 000 000
- c) 1: 5 000 000
- d) 1: 6 000 000

35. For the purpose of aeroplane mass and balance calculations, the datum point is defined as:

- a) A point near the centre of the aeroplane. It moves longitudinally as masses are added forward and aft of its location.
- b) The point through which the sum of the mass values (of the aeroplane and its contents) is assumed to act vertically.
- c) A variable point, that is dependent on the load distribution for its location, from which all balance arms are measured
- d) A fixed point from which all balance arms are measured. It may be located anywhere on the aeroplane's longitudinal axis or on the extensions to that axis.

36. An artificial feel unit is necessary in the pitch channel when:

- a) The elevators are actuated by irreversible servo-control units.
- b) The elevators are actuated by reversible servo-control units.
- c) There is a trimmable stabilizer.
- d) The elevators are fitted with servo-tabs or trim tabs.

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

37. Which phrase shall be used if you want to say: 'Pass me the following information...':

- a) Request
- b) Say again
- c) Report
- d) Check

38. When the air is passing through a shock wave the static temperature will

- a) Stay constant.
- b) Decrease.
- c) Decrease and beyond a certain Mach number start increasing again
- d) Increase.

39. A pilot wishes to turn right through 90° on to North at rate 2 at latitude of 40 North using a direct reading compass. In order to achieve this the turn should be stopped on an indicated heading of approximately:

- a) 360°
- b) 330°
- c) 010°
- d) 030°

40. Two identical turbojet aeroplanes (whose specific fuel consumptions are considered to be equal) are at holding speed at the same altitude. The mass of the first aircraft is 130000 kg and its hourly fuel consumption is 4300 kg/h. The mass of the second aircraft is 115000 kg and its hourly fuel consumption is:

- a) 4044 kg / h
- b) 3365 kg / h
- c) 3804 kg / h
- d) 3578 kg / h

41. An aircraft is 'homing' to a radio beacon whilst maintaining a relative bearing of zero. If the magnetic heading decreases, the aircraft is experiencing:

- a) Zero drift
- b) Left drift
- c) A wind from the west
- d) Right drift

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

42. A VFR flight when flying inside an ATS airspace classified as B has to maintain the following minima of flight visibility and distance from clouds:

- a) 5 km visibility, 1500 m horizontal and 300 m vertical from clouds
- b) 5 km below 3050 m (10000') AMSL and clear of clouds
- c) 8 km below 3050 m (10000') AMSL, 1500 m horizontal and 300 m vertical from clouds
- d) 5 km below 3050 m (10000') AMSL 1500 m horizontal and 300 m vertical from clouds

43. In the ATC flight plan item 15, when entering a route for which standard departure (SID) and standard arrival (STAR) procedures exist:

- a) SIDs should be entered but not STARs
- b) Both should be entered in the ATC plan where appropriate
- c) Neither SID nor STAR should be entered
- d) STARS should be entered but not SIDs

44. A higher pressure altitude at ISA temperature:

- a) Increases the climb limited take-off mass
- b) Decreases the take-off distance
- c) Has no influence on the allowed take-off mass
- d) Decreases the field length limited take-off mass

45. Given: For take-off an aircraft requires a headwind component of at least 10 kt and has a cross-wind limitation of 35 kt. The angle between the wind direction and the runway is 60°, Calculate the minimum and maximum allowable wind speeds?

- a) 12 kt and 38 kt
- b) 20 kt and 40 kt
- c) 18 kt and 50 kt
- d) 15 kt and 43 kt

46. The location of the centre of pressure of a positive cambered wing at increasing angle of attack will:

- a) Not shift
- b) Shift forward
- c) Shift in spanwise direction
- d) Shift aft

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

47. For the purpose of wake turbulence separation, what is the minimum separation time that is permitted when a light aircraft is taking off behind a heavy aircraft from an intermediate part of the same runway?

- a) 4 minutes
- b) 5 minutes
- c) 3 minutes
- d) 2 minutes

48. Clear ice forms on an aircraft by the freezing of:

- a) Small supercooled water drops
- b) Water vapour
- c) Snow
- d) Large supercooled water drops

49. Which statement is correct for a side slip condition at constant speed and side slip angle, where the geometric dihedral of an aeroplane is increased?

- a) The required lateral control force does not change.
- b) The required lateral control force decreases.
- c) The stick force per g decreases.
- d) The required lateral control force increases.

50. The decrease in temperature, per 100 metres, in a saturated rising parcel of air at lower level of the atmosphere is approximately

- a) 1°C
- b) 1.5°C
- c) 0.6°C
- d) 0.35°C

51. Which one of the following sets of conditions is most likely to attract birds to an aerodrome?

- a) Maintaining the grass on the airfield
- b) A opened refuse tip in close vicinity
- c) The extraction of minerals such as sand and gravel
- d) Modern and close sewage treatment centre in close proximity

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

52. Which statement about induced drag and tip vortices is correct?

- a) Tip vortices can be diminished by vortex generators
- b) The flow direction at the upper side of the wing has a component in wing root direction, the flow at the underside of the wing in wing tip direction
- c) The wing tip vortices and the induced drag decrease at increasing angle of attack
- d) The flow direction at the upper and under side of the wing, both deviate in wing tip direction

53. What does the abbreviation 'SAR' mean?

- a) Surveillance airport radar.
- b) Standard arrival route.
- c) Search and rescue.
- d) Secondary altimeter responder.

54. When vectoring an aircraft to intercept the localizer course, the final vector furnished shall be such as to enable the aircraft to intercept the localizer course at an angle not greater than:

- a) 30 degrees.
- b) 20 degrees.
- c) 45 degrees.
- d) 25 degrees.

55. A diluter demand oxygen regulator:

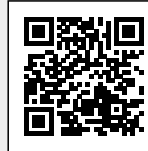
- a) Is only recommended for use with smoke in the cockpit.
- b) Delivers oxygen flow only above FL 100.
- c) Mixes air and oxygen in a passenger oxygen mask.
- d) Delivers oxygen flow when inhaling.

56. In the ground-air emergency code the symbol "X" means:

- a) Require medical assistance.
- b) Place suitable for helicopter landing.
- c) Yes.
- d) Require assistance.

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

57. A vibration indicator receives a signal from different sensors (accelerometers). It indicates the:

- a) Acceleration measured by the sensors, expressed in g
- b) Vibration amplitude at a given frequency
- c) Vibration period expressed in seconds
- d) Vibration frequency expressed in Hz

58. 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.

59. If the cabin altitude rises (aircraft in level flight), the differential pressure:

- a) Increases
- b) Remains constant
- c) Decreases
- d) May exceed the maximum permitted differential unless immediate preventative action is taken.

60. The maximum permissible take-off mass of an aircraft for the L wake turbulence category on an ATC flight plan is:

- a) 2 700 kg
- b) 7 000 kg
- c) 10 000 kg
- d) 5 700 kg

61. The torque effect during the take-off run in respect of a right hand propeller, when viewed from behind, will tend to:

- a) Roll the aeroplane to the right
- b) Pitch the aeroplane nose down
- c) Pitch the aeroplane nose up
- d) Roll the aeroplane to the left

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

62. What does the abbreviation 'HJ' mean?

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

63. Aircraft XY-ABC is making a test transmission with Stephenville TOWER on frequency 118.7. What is the correct phrasing for this transmission:

- a) Stephenville TOWER XY-ABC radio check 118.7
- b) Stephenville TOWER XY-ABC frequency check
- c) Stephenville TOWER XY-ABC signal check
- d) Stephenville TOWER XY-ABC pre-flight check

64. 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.

65. When determining the maximum landing mass of a turbojet powered aeroplane during the planning phase what factor must be used on the landing distance available (dry runway)

- a) 115/100
- b) 1.67
- c) 0.60
- d) 60/115

66. In straight horizontal steady flight, at speeds below that for minimum drag:

- a) A lower speed requires a higher thrust.
- b) The aeroplane cannot be controlled manually.
- c) A higher speed, but still below that for minimum drag, requires a higher thrust.
- d) The aeroplane can be controlled only in level flight.

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

67. In twin-engine aeroplanes with right turning propellers

- a) The left engine is the critical motor.
- b) The left engine produces a higher yaw moment if the right engine fails than vice versa.
- c) The right engine is the critical motor.
- d) The 'minimum control speed' is determined by the failure of the right engine.

68. Given: Distance from departure to destination 2800 NM True track 140 W/V 140/100 TAS 500 kt What is the distance and time of the PET from the departure point?

- a) Distance: 1400 NM Time: 168 min
- b) Distance: 1120 NM Time: 112 min
- c) Distance: 1120 NM Time: 134 min
- d) Distance: 1680 NM Time: 252 min

69. For a given configuration, the stall speed of an aeroplane will be highest when loaded:

- a) To the maximum allowable mass with the most forward CG
- b) To the maximum allowable mass with the most aft CG
- c) To a low total mass with the most aft CG
- d) To a low total mass with the most forward CG

70. In a turn at a constant angle of bank, the turn indicator reading is:

- a) Independent to the aircraft true airspeed
- b) Proportional to the aircraft true airspeed
- c) Proportional to the aircraft weight
- d) Inversely proportional to the aircraft true airspeed

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

Response Scheme

Compare your answers with the following diagram and mark your score!

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

Exam simulation

ATPL - Airline Transport Pilot license - Communications



Quizvds.it

Response form

Use this form to mark your answers

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