

Exam simulation

ATPL - Airline Transport Pilot license - IFR Communications



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STUDENT NAME:

DATE AND TIME:

01. During a climb at a constant IAS, the Mach Number:

- a) Decrease initially and increase subsequently.
- b) Remain constant.
- c) Increase.
- d) Increase initially and remain constant subsequently.

02. What is the radiotelephony call sign for the aeronautical station indicating area control centre (no radar)?

- a) ...CONTROL
- b) ...RADAR
- c) ...APPROACH
- d) ...CENTRE

03. Regarding centre of gravity position and longitudinal stability, which of the following statements is correct?

- a) If the actual centre of gravity is located behind the aft limit of centre of gravity it is possible that the aeroplane will be unstable, making it necessary to increase elevator forces
- b) A tail heavy aeroplane is less stable and stalls at a lower speed than a nose heavy aeroplane
- c) The lowest stalling speed is obtained if the actual centre of gravity is located in the middle between the aft and forward limit of centre of gravity
- d) If the actual centre of gravity is close to the forward limit of the centre of gravity the aeroplane may be unstable, making it necessary to increase elevator forces

04. The climb limited take-off mass can be increased by:

- a) Selecting a lower V_2
- b) Selecting a lower V_1
- c) Selecting a lower V_R
- d) A lower flap setting for take-off and selecting a higher V_2

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05. Which statement about a jet transport aeroplane is correct during take-off with the cg at the forward limit and the trimmable horizontal stabiliser (THS) positioned at the maximum allowable aeroplane nose down position?

- a) If the THS position is just within the limits of the green band, the take-off warning system will be activated.
- b) Early nose wheel raising will take place.
- c) The rotation will require extra stick force.
- d) Rotation will be normal.

06. Under which of the following circumstances shall an aircraft station squawk 7600?

- a) When entering bad weather areas
- b) In case of radio communication failure
- c) When flying over desert areas
- d) When approaching a prohibited area

07. What action should be taken by the aircraft station first receiving a distress message?

- a) Ask the station to change to frequency 121.5 MHz.
- b) Immediately acknowledge the distress message.
- c) Request position of the station in distress.
- d) Request the nature of emergency in progress, and request further intentions.

08. A horizontal tailwind gust may cause an aeroplane to:

- a) Climb.
- b) Descend.
- c) Have no effect on the flight path.
- d) Climb or descend depending on gust strength.

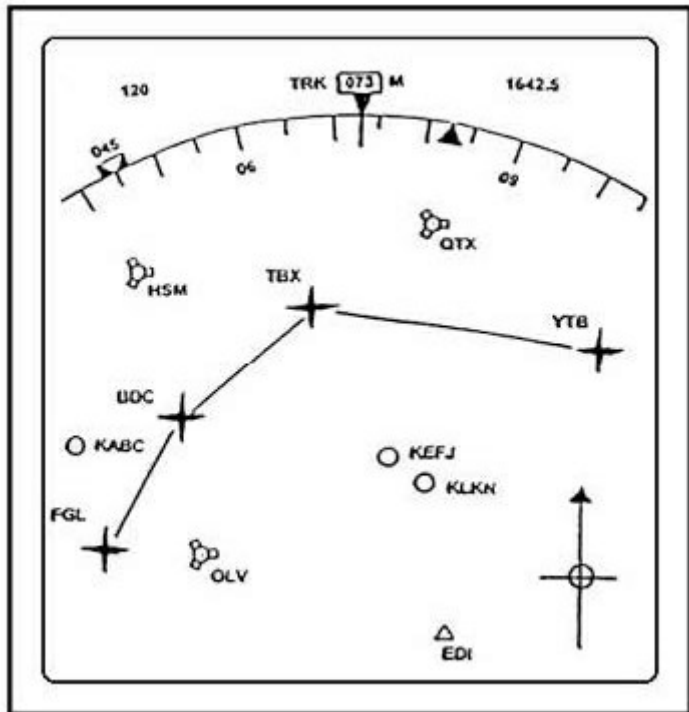
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09. What is the value of the track from TBX to YTB?



- a) 170°(M)
- b) 140°(M)
- c) 097°(T)
- d) 280°(T)

10. What is the radiotelephony call sign for the aeronautical station indicating approach control radar arrivals?

- a) ...ARRIVAL
- b) ...DIRECTOR
- c) ...RADAR
- d) ...APPROACH

11. Which statement is correct about a normal shock wave?

- a) The airflow changes direction
- b) The airflow changes from subsonic to supersonic
- c) The airflow changes from supersonic to subsonic
- d) The airflow expands when passing the aerofoil

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12. Interception. If any instructions received by radio from any sources conflict with those given by the intercepting aircraft by visual signals, the intercepted aircraft shall:

- a) Ignore the signals of the intercepting aircraft and request instructions from the appropriate ATS unit.
- b) Follow the instructions of the intercepting aircraft and request immediate clarification.
- c) Select transponder mode A, squawk 7600, fly holding patterns until having received instructions from the appropriate ATS unit.
- d) Ignore the signals of the intercepting aircraft and continue in accordance with the last clearance received and confirmed by the appropriate ATS unit.

13. With zero wind, the angle of attack for maximum range for an aeroplane with turbojet engines is:

- a) Lower than the angle of attack corresponding to maximum endurance
- b) Equal to the angle of attack corresponding to maximum lift to drag ratio
- c) Equal to the angle of attack corresponding to zero induced drag
- d) Equal to the angle of attack corresponding to maximum endurance

14. An aeroplane which has a maximum certificated take-off mass over 5700 kg, shall be equipped with a cockpit voice recorder capable of retaining information recorded during at least the last:

- a) 30 minutes or 2 hours of its operation, depending upon the date of the first issue of its individual Certificate of Airworthiness.
- b) 25 hours of its operation.
- c) 20 hours of its operation.
- d) 30 minutes or 1 hour of its operation, depending upon the date of the first issue of its individual Certificate of Airworthiness.

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18. A 'current flight plan' is a:

- a) Filed flight plan.
- b) Flight plan with the correct time of departure.
- c) Filed flight plan with amendments and clearance included.
- d) Flight plan in the course of which radio communication should be practised between aeroplane and ATC

19. The torque of an aeroplane engine can be measured at the:

- a) Camshaft.
- b) Propeller blades.
- c) Gear box which is located between the engine and the propeller.
- d) Accessory gear box.

20. Which of the following abilities will not improve efficient decision making on the cockpit?

- a) Ability to persuade others to follow your own point of view.
- b) Ability to think ahead and specify alternative courses of action.
- c) Ability to search for and examine all available information regarding a situation.
- d) Communicational skills and social competence.

21. When the weather is foggy, on approach, a pilot may get a feeling of:

- a) The airfield being further away than actually is
- b) Aircraft altitude being lower than it actually is
- c) His/her eyes focusing on infinity
- d) His/her visual field shrinking (that is, tunnel vision)

22. What is the procedure to be followed if, on a flight under IFR conditions using the NAVSTAR/GPS satellite navigation system, the number of satellites required to maintain the RAIM (Receiver Autonomous Integrity Monitoring) function are not available?

- a) The flight has to be continued under VFR conditions
- b) The flight may be continued using other certificated navigation systems
- c) The flight may be continued as planned if at least 4 satellites are available and the pilot monitors the GPS-System manually
- d) A constant heading and speed must be flown until the required number of satellites are again available

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23. What are the characteristics of cumuliform clouds?

- a) Large water droplets, instability, turbulence, showers and mainly clear ice.
- b) Small water droplets, instability, turbulence, extensive areas of rain and rime ice.
- c) Small water droplets, stability, no turbulence and extensive areas of rain.
- d) Large water droplets, stability, no turbulence, showers and mainly rime ice.

24. What is normally used for ATIS broadcasts?

- a) Voice channel of an ILS
- b) NDB frequencies
- c) Discrete VHF frequency or/and VOR
- d) DME voice channel

25. An operator shall not operate an aeroplane first issued with an individual Certificate of Airworthiness on or after 1 April 1998, which has a maximum certificated take-off mass over 5700 kg, unless it is equipped with a cockpit voice recorder which shall be capable of retaining information recorded during at least the last:

- a) 30 minutes of its operation.
- b) 20 hours of its operation.
- c) 2 hours of its operation.
- d) 25 hours of its operation.

26. Cognitive evaluation which leads to stress is based on:

- a) The evaluation of the capabilities of the individual and the time available
- b) The evaluation of the situation and the state of fatigue of the individual
- c) The capabilities of the individual and the solutions provided by the environment
- d) The evaluation of the situation and the evaluation of capabilities to cope with it

27. Which phrase shall be used to confirm that a message has been repeated correctly:

- a) Correct
- b) That is affirmative
- c) Affirm
- d) That is right

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28. The maximum quantity of fuel that can be loaded into an aircraft's tanks is given as 2200 l. If the fuel density (specific gravity) is given as 0.79 the mass of fuel which may be loaded is:

- a) 1738 kg
- b) 1798 kg
- c) 2098 kg
- d) 2785 kg

29. On the readability scale what does 'readability 1' mean?

- a) Readable
- b) Perfectly readable
- c) Unreadable
- d) Readable but with difficulty

30. From your cruising altitude at FL 240, you want to descend to flight level 100. Your transmission to the radar controller is:

- a) Request descent to flight level one-zero-zero
- b) We would like to start descent to flight level one-zero-zero
- c) Request to descend one-hundred
- d) Request flight level one-hundred

31. The two signals transmitted by a conventional VOR ground station are 90° out of phase on magnetic:

- a) South
- b) West
- c) East
- d) North

32. On the ground, during a right turn, the turn indicator indicates:

- a) Needle to the right, ball to right
- b) Needle to the right, ball to left
- c) Needle in the middle, ball to left
- d) Needle in the middle, ball to right

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33. On a clear summer day, turbulence caused by solar heating is most pronounced:

- a) Immediately after sunset
- b) During early morning hours before sunrise
- c) During the early afternoon
- d) About midmorning

34. The lift formula is:

- a) $L = W$
- b) $L = C_L \frac{1}{2} \rho V^2 S$
- c) $L = n W$
- d) $L = C_L 2 \rho V^2 S$

35. A signal sent by radiotelephony consisting of the spoken words PAN PAN, PAN PAN, PAN PAN means:

- a) The aircraft is diverting from the route cleared because of a thunderstorm and asks for immediate reclearance
- b) Imminent danger threatens the aircraft and immediate assistance is required
- c) An aircraft on final approach is starting the missed approach procedure
- d) The aircraft has a very urgent message to transmit concerning the safety of a ship, aircraft or other vehicle, but immediate assistance is not required

36. An aeroplane with a two wheel nose gear and four main wheels rests on the ground with a single nose wheel load of 500 kg and a single main wheel load of 6000 kg. The distance between the nose wheels and the main wheels is 10 m. How far is the centre of gravity in front of the main wheels?

- a) 40 cm
- b) 41.6 cm
- c) 4 m
- d) 25 cm

37. Which of the following calls is a 'general call'?

- a) ALL STATIONS Stephenville CONTROL
- b) YX-EFG, YX-FGH over
- c) YX-DEF Stephenville CONTROL
- d) YX-ABC, YX-BCD, YX-CDE Stephenville CONTROL

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38. Positive static lateral stability is the tendency of an aeroplane to:

- a) Roll to the right in the case of a positive sideslip angle (aeroplane nose to the left).
- b) Roll to the right in a right turn.
- c) Roll to the left in the case of a positive sideslip angle (aeroplane nose to the left).
- d) Roll to the left in a right turn.

39. Stress is a frequent aspect of the pilot's job. Under which of the following circumstances does it occur? 1. Stress occurs whenever the pilot must revise his plan of action and does not immediately have a solution 2. Stress occurs with inexperienced pilots when the situational demands exceed their individual capabilities 3. Stress occurs if a pilot is convinced that he will not be able to find a solution for the problem he/she faces.

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

40. When the intruding aircraft is equipped with a transponder without altitude reporting capability, the TCAS (Traffic Collision Avoidance System) issues a:

- a) 'traffic advisory' and vertical 'resolution advisory'.
- b) 'traffic advisory' only.
- c) 'traffic advisory', vertical and horizontal 'resolution advisory'.
- d) 'traffic advisory' and horizontal 'resolution advisory'.

41. What does the signal "N" mean?

- a) All personnel found.
- b) "No" or "Negative".
- c) Nothing found, continuing search.
- d) Unable to continue - returning to base.

42. The operating principle of the vertical speed indicator (VSI) is based on the measurement of the rate of change of:

- a) Dynamic pressure
- b) Static pressure
- c) Kinetic pressure
- d) Total pressure

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43. What does the word 'negative' mean?

- a) Disregard last instruction
- b) Proposed action granted
- c) Consider that transmission as not sent
- d) Permission not granted

44. 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.

45. You plan to fly from point A (60N 010E) to point B (60N 020E). The gyro North of the gyro compass, assumed to be operating perfectly, with no rate correction device, is aligned with the true North of point A. The constant gyro heading to be followed when starting from A given that the flight time scheduled is 1 h 30 min with a zero wind, is equal to:

- a) 080
- b) 066
- c) 076
- d) 085

46. The rate and depth of breathing is primarily regulated by the concentration of:

- a) Carbon dioxide in the blood
- b) Oxygen in the cells
- c) Water vapour in the alveoli
- d) Nitrogen in the air

47. The Decision Height (DH) warning light comes on when an aircraft:

- a) Passes over the outer marker.
- b) Descends below a pre-set barometric altitude.
- c) Descends below a pre-set radio altitude.
- d) Passes over the ILS inner marker.

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48. What effect has a tailwind on the maximum endurance speed?

- a) No effect
- b) The IAS will be decreased
- c) The IAS will be increased
- d) Tailwind only effects holding speed

49. If an aircraft maintaining a constant CAS and flight level is flying from a cold air mass into warmer air:

- a) TAS decreases.
- b) Mach number increases.
- c) Mach number decreases.
- d) TAS increases.

50. Which word shall be used to ask a station whether you have correctly received a message, clearance, instruction, etc?

- a) Correct
- b) Acknowledge
- c) Confirm
- d) Verify

51. Contrary to the loading sheet forecasts you have: Cargo compartment 1: empty. Cargo compartment 2: 1000 kg. Cargo compartment 3: 3000 kg. Cargo compartment 4: 2000 kg. Cargo compartment 5: 1000 kg. Passengers in compartment OA: 20. Passengers in compartment OB: 20. Passengers in compartment OC: 30. The take-off centre of gravity in MAC % (Mean Aerodynamic Chord), will be located at:

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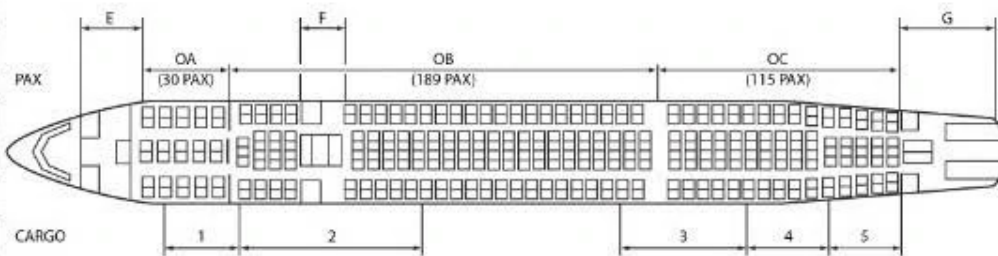
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LOAD and TRIM SHEET

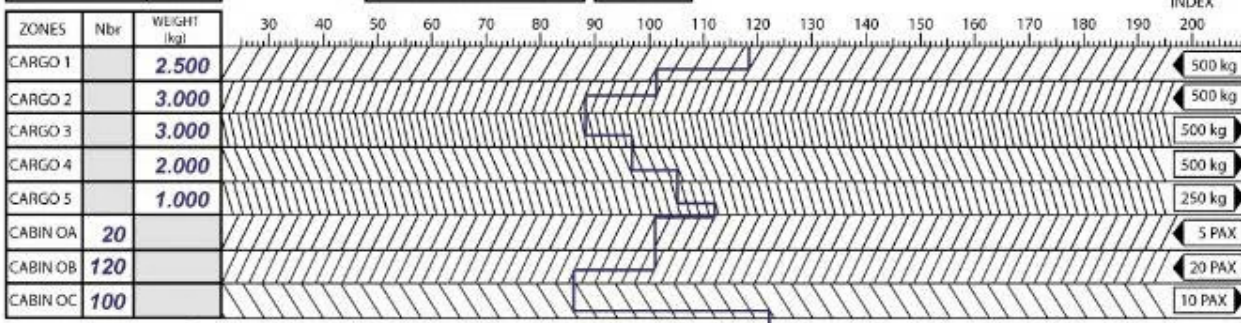
DRY OPERATING WEIGHT CONDITIONS WEIGHT (1000 kg) 110 CG (% MAC) 30,5% DRY OPER WEIGHT INDEX 119,1		AIRCRAFT REGISTER: DATE: _____ PREPARED BY: _____ FLT Nbr: _____ FROM: _____ TO: _____	DRY OPERATING WEIGHT = 110.000 WEIGHT DEVIATION (PANTRY) = 100 CORRECTED DRY OPER WEIGHT = 110.100 CARGO = 11.500 PASSENGERS 2'40 x 7'5 = 18.000 ZERO FUEL WEIGHT = 139.600 TOTAL FUEL = 72.000 TOTAL WEIGHT = 211.600
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ZONES	E	F	G
WEIGHT (kg)			
DEVIATION		+100	

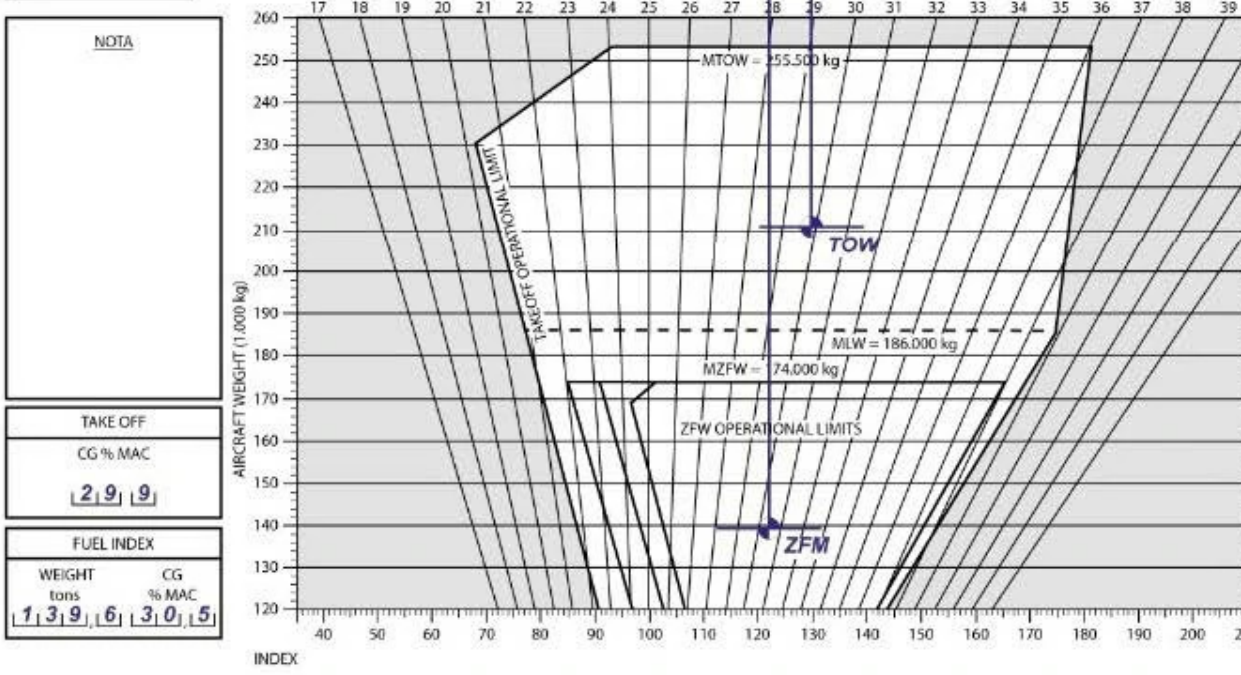
BASIC INDEX CORRECTION			
DRY OPER. WEIGHT DEVIATION	ZONES		
	E	F	G
+ 100 kg			
- 100 kg			
INDEX CORRECTION	-0,51		



CORRECTED INDEX **118,6**



FUEL INDEX	+8	INDEX
SEE TABLE OVERLEAF		



NOTA

TAKE OFF	CG % MAC
	29,9

FUEL INDEX	WEIGHT tons	CG % MAC
	13,9	30,5

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- a) 32.5 %
- b) 24.5 %
- c) 35.5 %
- d) 30.5 %

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52. A repetitive flight plan (RPL) is filed for a scheduled flight: Paris-Orly to Angouleme, Paris Orly as alternate. Following heavy snow falls, Angouleme airport will be closed at the expected time of arrival. The airline decides before departure to plan a re-routing of that flight to Limoges.

- a) The RPL must be cancelled for that day and a specific flight plan has to be filed.
- b) The pilot-in-command must advise ATC of his intention to divert to Limoges at least 15 minutes before the planned time of arrival.
- c) It is not possible to plan another destination and the flight has to be simply cancelled that day (scheduled flight and not chartered).
- d) The airline's 'Operations ' Department has to transmit a change in the RPL at the ATC office, at least half an hour before the planned time of departure.

53. A ground proximity warning system (GPWS), when mandatory installed on board an aircraft, must in all cases generate:

- a) At least one sound alarm to which a visual alarm can be added
- b) A visual alarm to which a sound alarm can be added
- c) A sound and visual alarm
- d) A sound alarm or a visual alarm

54. Continuous updraughts occur in a thunderstorm during the

- a) Dissipating stage.
- b) Mature stage.
- c) Period in which precipitation is falling.
- d) Initial stage.

55. Why are 'step climbs' used on long distance flights?

- a) To fly as close as possible to the optimum altitude as aeroplane mass reduces.
- b) To respect ATC flight level constraints.
- c) Step climbs do not have any special purpose for jet aeroplanes
- d) They are used for piston engine aeroplanes only.

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56. What will be the effect on the reading of an altimeter of an aircraft parked on the ground shortly before an active cold front passes?

- a) It will remain unchanged.
- b) It will be decreasing.
- c) It will be increasing.
- d) It will fluctuate up and down by about ± 50 feet.

57. Latitude may be defined as:

- a) The angular distance measured along a meridian from the equator to a parallel of the latitude, measured in degrees, minutes, and seconds and named North to South.
- b) The angle between the plane of the equator and the plane of the parallel of latitude.
- c) The displacement of a place from equator.
- d) The distance from equator to a place on the surface of the Earth.

58. SSR - Transponder When the aircraft carries serviceable Mode C transponder, the pilot shall continuously operate this mode

- a) Unless otherwise directed by ATC.
- b) Only when the aircraft is flying within controlled airspace.
- c) Only when the aircraft is flying within controlled airspace. regardless of ATC instructions.
- d) Only when directed by ATC.

59. The forces acting upon the compass needle in a stand-by compass in an aircraft are:

- a) The Earth's magnetic field, the Coriolis effect and aircraft magnetism
- b) The Earth's magnetic field, the aircraft magnetic field and the effects of attitude and movement of the aircraft
- c) The total magnetic field in the compass location
- d) Mechanical forces only

60. Given: Standard Empty Mass 1764 lbs. Optional Equipment 35 lbs. Pilot + Passenger 300 lbs. Cargo 350 lbs. Ramp Fuel (Block Fuel) 60 Gal. Trip Fuel 35 Gal. Taxi Fuel 1.7 Gal. Final Reserve Fuel 18 Gal. Fuel density 6 lbs/Gal. Determine the expected landing mass.

- a) 2589 lbs
- b) 2557 lbs
- c) 2472 lbs
- d) 2599 lbs

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61. In accordance with ICAO and PANS RAC procedures, which letter should be entered into a flight plan to denote an aeroplane which has a weight of less than 136000 kg but greater than 7000 kg:

- a) L
- b) H
- c) S
- d) M

62. Clear ice forms as a result of

- a) Supercooled water droplets spreading during the freezing process
- b) Supercooled droplets freezing on impact
- c) Ice pellets splattering on the aircraft
- d) Water vapour freezing to the aircraft

63. An aircraft at position 60°N 005°W tracks 090°(T) for 315 km. On completion of the flight the longitude will be:

- a) 000°40'E
- b) 000°15'E
- c) 002°10'W
- d) 005°15'E

64. Concerning the TCAS (Traffic Collision Avoidance System):

- a) In one of the system modes, the warning: 'PULL UP' is generated
- b) In one of the system modes, the warning: 'TOO LOW TERRAIN' is generated
- c) Resolution Advisory (RA) must not be followed without obtaining clearance from ATC
- d) No protection is available against aircraft not equipped with a serviceable SSR transponder

65. Given: Maximum allowable tailwind component for landing 10 kt. Planned runway 05 (047° magnetic). The direction of the surface wind reported by ATIS 210°. Variation is 17°E. Calculate the maximum allowable wind speed that can be accepted without exceeding the tailwind limit?

- a) 18 kt
- b) 11 kt
- c) 15 kt
- d) 8 kt

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66. The so-called 'Seat-of-the-Pants' sense is

- a) Only to be used by experienced pilots with the permission to fly in IMC
- b) Not suitable for spatial orientation when outside visual references are lost
- c) The only sense a pilot can rely on, when flying in IMC
- d) Useful for instrument and contact flight

67. 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.

68. How shall a pilot inform the control tower that they have to abandon the take-off manoeuvre:

- a) Stopping
- b) Cancelling take-off
- c) Aborting take-off
- d) Abandoning take-off

69. 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.

70. The landing field length required for jet aeroplanes at the alternate (wet condition) is the demonstrated landing distance plus

- a) 92%
- b) 67%
- c) 70%
- d) 43%

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Response Scheme

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

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

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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: _____		